```
This file is generated by The Interactive Disassembler (IDA)
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                          ; File Name : E:\Projects\NeoKong\arcade\dkong.bin
; Format : Binary File
; Base Address: 0000h Range: 0000h - 4000h Loaded length: 4000h
                            Processor: z80
Target assembler: ASxxxx by Alan R. Baldwin v1.5
.area idaseg (ABS)
.area idaseg (ABS)
.hd64 ; this is needed only for HD64180
                          ; Segment type: Pure code
; segment 'ROM'
0000
0000 3E 00
0000 3E 00
0000 0002 32 84 7D
0005 C3 66 02
                          RESET:
                                                                                                                           ; CODE XREF: 0000:00B2 | j ; DATA XREF: 0000:0FCD | o
                                                  ld
                                                               (nmi_mask), a
                                                  jр
                                                              TNTT
0008
0008
0008
                                                 SUBROUTINE
0008
0008
0008 3A 07 60
0008
                                                                                                                            ; CODE XREF: flash_1UP_or_2UP+7|p
; add_bonus_and_update_high_score+1|p ...
                          return_if_attract_mode:
                                                  1d
                                                              a. (attract mode flag)
0008
000B 0F
000C D0
000D 33
000E 33
                                                  rrca
ret
                                                              NC
                                                  inc
                                                              sp
                                                                                                                            ; discard return address
                                                  inc
                                                              sp
                          ret
; End of function return_if_attract_mode
000F C9
000F
000F
0010
0010
0010
                                  SUBROUTINE
0010
0010
0010
0010 3A 00 62
0013 0F
0013 0F
0014 D8
0015 33
0016 33
0017 C9
0017
0017
0018
                                                                                                                            ; CODE XREF: sub_0_3A2+3\protect\operatorname{p}; sub_0_2C03+3\protect\operatorname{p} ...
                          return_if_mario_not_alive:
                                                  ld
                                                              a, (mario_alive_flag)
                                                                                                                            ; is mario alive?
                                                  rrca
                                                  ret
inc
inc
                                                                                                                            ; yes, return
                                                              sp
                                                                                                                            ; discard return address
                                                              sp
                                                  ret
                          ; End of function return_if_mario_not_alive
0018
0018
0018
                          ; SUBROUTINE
                          return NOT 8bit timeout:
                                                                                                                              CODE XREF: return NOT 16bit timeout+4|j
0018 21 09 60
                                                                                                                            ; 0000:0A63|p ..
0018
001B 35
                                                  ld
dec
                                                              hl, #eight_bit_countdown (hl)
001C C8
                                                  ret
                                                              Z
001C C8
001D 33
001E 33
001F C9
                                                               sp
                                                                                                                            ; discard return address
                                                              sp
                                                  ret
001F
                          ; End of function return_NOT_8bit_timeout
001F
0020
0020
                                SUBROUTINE
0020
0020
0020
0020
0020 21 08 60
                          return_NOT_16bit_timeout:
                                                                                                                            ; CODE XREF: 0000:0763 p; 0000:084B p
0020 21 00
0020
0023 35
0024 28 F2
0026
                                                              hl, #sixteen_bit_countdown_msb(hl)
                                                  1d
                                                  dec
jr
                                                              Z, return_NOT_8bit_timeout
0026
0026 E1
0026
                                                                                                                            ; CODE XREF: print_message_A+1A|j
; sub_0_1783+4|j
; discard return address
                          pop_hl_ret:
                                                              hl
                                                  gog
0027 C9
                                                  ret
                          ; End of function return_NOT_16bit_timeout
0028
0028
0028
0028
0028
                                                SUBROUTINE
                          jump_table_go_A:
                                                                                                                              CODE XREF: 0000:00C9|p
0028 87
0028
0029 E1
002A 5F
                                                                                                                            ; 0000:0701|p ...
; entries are words
; return address is table base
                                                  add
                                                              a, a
hl
                                                  pop
ld
                                                              e, a
d, #0
loc_0_32
002H 3F
002B 16 00
002D C3 32 00
002D
                                                                                                                            ; DE = offset
; skip vector address
                                                  1d
                                                   jp
                          ; End of function jump_table_go_A
002D
0030
0030
0030
                                                 SUBROUTINE
0030
0030
0030
0030 18 12
0030
                                                                                                                            ; CODE XREF: sub_0_3A2+2\p; 0000:1668\p ...
                          sub_0_30:
                                                  jr
                                                              return if level bit not set
0032
0032
0032
0032 19
                                                                                                                            ; CODE XREF: jump_table_go_A+5<sup>†</sup>j; get address of entry
                          loc_0_32:
                                                  add
                                                              hl, de
                                                              e, (hl)
hl
d, (hl)
de, hl
(hl)
0033 5E
0034 23
0035 56
                                                  ld
inc
                                                                                                                            ; DE = jump address
; HL - jump address
0036 EB
                                                  ex
0037 E9
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
0038
0038
0038
0038 11 04 00
0038
                                                                                                                                               CODE XREF: animate_kong_and_pauline+F\p animate_kong_and_pauline+65\p ... every 4th byte loop 10 times
                             add_c_sprite_register_x10:
003B 06 0A
003D
003D
003D 79
                                                                       b, #10
                                                         ld
                                                                                                                                            ; CODE XREF: sub_0_30+11|j; 0000:0D9A|p ...
                             add_c_sprite_register_xB:
003D
003E 86
003F 77
0040 19
                                                         ld
                                                                       a, (hl)
(hl), a
hl, de
                                                         add
ld
add
                                                                                                                                            ; (HL)+=C
; next byte
0041 10
0043 C9
0044
0044
        10 FA
                                                         dinz
                                                                       add_c_sprite_register_xB
                                                                                                                                             ; loop
0044
0044 21 27 62
0047 46
                             return_if_level_bit_not_set:
    ld          hl, #level_type
    ld          b, (hl)
                                                                                                                                            ; CODE XREF: sub_0_301j
                                                                                                                                            ; get level type
0048
0048
0048
0049
                              loc_0_48:
                                                                                                                                             ; CODE XREF: sub_0_30+19|j
        0F
10 FD
                                                                                                                                            ; get bit of A for level
; bit set, return
; discard return address
                                                                       loc 0 48
                                                         djnz
004B D8
                                                         ret
004E E1
004D C9
004D
                                                         pop
ret
                                                                       hl
                              ; End of function sub_0_30
004D
004E
004E
004E
                              ; SUBROUTINE
004E
004E
004E 11 08 69
004E
                                                                                                                                               CODE XREF: animate_kong_and_pauline+4D|p animate_kong_and_pauline+77|p ... ptr sprite #2
                              copy_sprites_2_11_data:
                                                         1d
                                                                       de, #soft sprite ram+8
004E
0051 01 28 00
0054 ED B0
0056 C9
                                                                                                                                               10 4-byte sprites to copy
copy 40 bytes of sprite data
                                                         1d
                                                                       bc, #40
                                                         ldir
                                                         ret
                              ; End of function copy_sprites_2_11_data
0056
0056
0056
0057
0057
0057
0057
0057
0057 3A 18 60
                                                        SUBROUTINE
                                                                                                                                            ; CODE XREF: 0000:00B9|p; sub_0_2523+22|p ...
                                                         14
                                                                            (random no)
005A 21 1A 60
005D 86
                                                         ld
add
                                                                       hl, #gen_purpose_timer
a, (hl)
005E
005E
005E
005E 21 19 60
0061 86
0062 32 18 60
0065 C9
0065
                              loc_0_5E:
                                                                       hl, #random_no+1
a, (hl)
                                                         add
                                                                       a, (hl)
(random_no), a
                                                         1d
                              ; End of function rand
0065
0066
0066
0066 F5
0067 C5
0068 D5
0069 E5
                             nmi:
                                                         push
                                                         push
push
push
                                                                       bc
                                                                       de
hl
006A DD E5
006C FD E5
                                                                       ix
iy
                                                         push
                                                         push
xor
ld
006C FD E5
006E AF
006F 32 84 7D
0072 3A 00 7D
0075 E6 01
0077 C2 00 40
007A 21 38 01
007D CD 41 01
0080 3A 07 60
0083 A7
0084 C2 B5 00
0087 3A 26 60
                                                                       a (nmi_mask),
                                                                       ..mu1_mask), a
a, (in2_snd_latch)
#1
                                                                                                                                             ; disable_nmi
                                                         ld
                                                                                                                                                IN2
                                                         and
jp
ld
                                                                                                                                             ; hit 0 set?
                                                                       NZ, 0x4000
                                                                                                                                             ; yes, boom! (not valid code)
                                                                       hl, #dma_reg_tbl
                                                                       dma_sprite_data_to_hw
a, (attract_mode_flag)
                                                         call
                                                                                                                                            ; update sprites
                                                         ld
and
                                                                                                                                            ; in attract mode?
; yes, skip reading inputs
                                                                       a
NZ, loc_0_B5
                                                         jp
ld
and
0084 C2 B3 00
0087 3A 26 60
008A A7
008B C2 98 00
                                                                       a, (upright)
                                                                       NZ, loc_0_98
                                                         jp
ld
008E 3A 0E 60
0091 A7
0092 3A 80 7C
0095 C2 9B 00
                                                                       a, (current_player_E)
                                                                                                                                            ; player 2?
; (cocktail)
                                                                                                                                            ; (cocktail); yes, skip
                                                                       a, (in1)
NZ, loc_0_9B
                                                          ld
                                                         qŗ
0098
                             loc_0_98:
                                                                                                                                            ; CODE XREF: 0000:008B<sup>†</sup>j
; (upright)
                                                                       a, (in0)
009B
009B
                                                                                                                                             ; CODE XREF: 0000:009511
                             loc 0 9B:
009B 47
009C E6 0F
009E 4F
                                                         ld
and
ld
                                                                       b, a
#0xF
                                                                                                                                                store INO/1
joystick only
                                                                                                                                                store
009E 4F
009F 3A 11 60
00A2 2F
00A3 A0
00A4 E6 10
                                                         1d
                                                                       a, (last_raw_in)
                                                                                                                                               last raw input
negate
                                                         cpl
and
and
                                                                                                                                                rising-edge detect
                                                                       #0x10
                                                                                                                                               button
00A4 E6 10

00A6 17

00A7 17

00A8 17

00A9 B1

00AA 60

00AB 6F

00AC 22 10 60

00AF 78
                                                         rla
rla
rla
                                                                                                                                            ; bit 7
; add joystick bits
; raw controller input
; joystick and button press
                                                         or
                                                         ld
ld
ld
                                                                       h, b
```

; store

; reset input?

; CODE XREF: 0000:008414

; IRQ resume address

; general purpose timer tick
; randomise

(controller_in), hl

hl, #gen_purpose_timer
(hl)

check_coin_inserted update_sounds

a, (nmi_sequencer)

hl, #nmi_exit

a, b

rand

h1

6, a NZ, RESET

ld

bit jp

ld dec call

call call ld

push ld

loc 0 B5:

00B0 CB 77 00B2 C2 00 00 00B5

00B5 21 1A 60 00B8 35 00B9 CD 57 00 00BC CD 7B 01 00BF CD E0 00 00C2 21 D2 00

00C6 3A 05 60

00B5

00C5 E5

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
00C9 EF
                                                          rst
00C9
00CA C3 01
00CC 3C 07
00CE B2 08
                                                          .dw init_machine_settings
.dw chk_credits_and_vector_on_attrac
.dw vector_on_credit_sequencer
                                                                                                                                              ; Jump table (nmi sequencer)
00D0 FE 06
                                                           .dw vector_on_ingame_sequencer
00D2
00D2
00D2
                                                                                                                                              ; DATA XREF: 0000:00C210
                             nmi_exit:
00D2 FD E1
00D4 DD E1
00D6 E1
00D7 D1
                                                                        iy
ix
hl
de
                                                          qoq
                                                          pop
                                                          pop
00D8 C1
00D9 3E 01
00DB 32 84 7D
00DE F1
                                                          pop
ld
ld
                                                                        bc
a, #1
(nmi_mask), a
                                                                                                                                               ; enable_nmi
                                                          pop
ret
00DE F1
00DF C9
00E0
00E0
                                                         SUBROUTINE
00E0

00E0

00E0

00E0

00E0

00E0 21 80 60

00E3 11 00 7D

00E6 3A 07 60

00E9 A7

00EA CO

00EB 06 08

00ED
                              update_sounds:
                                                                                                                                               ; CODE XREF: 0000:00BF1p
                                                          ld
                                                                        hl, #digital_snd_tmr_walk de, #in2_snd_latch
                                                                       ae, #in2_snd_latch
a, (attract_mode_flag)
a
                                                                                                                                              ; base of digital sound triggers
                                                          ld
                                                          ld
and
                                                                                                                                               ; in attract mode?
                                                                                                                                              ; yes, return
; 8 digital sound triggers
                                                          ret
                                                                        NZ
                                                          14
                                                                        b. #8
00ED
00ED
00ED
                                                                                                                                                 CODE XREF: update_sounds+18|j
timer for this sound
done?
yes, skip
decrement timer
                             loc_0_ED:
                                                          ld
                                                                        a, (hl)
00EE A7
00EF CA F5 00
00F2 35
00F3 3E 01
                                                          and
jp
dec
                                                                        a
Z, loc_0_F5
                                                                        (hl)
a, #1
                                                          ld
                                                                                                                                               ; enable
00F5
00F5
00F5
12
                                                                                                                                                 CODE XREF: update_sounds+F<sup>†</sup>j set trigger state for this sound next latch
                              loc_0_F5:
                                                                        (de), a
                                                          ld
00F5 12

00F6 1C

00F7 2C

00F8 10 F3

00FA 21 8B 60

00FD 7E

00FF A7

00FF C2 08 01

0103 2D

0104 7E

0105 C3 0B 01

0108
                                                          inc
                                                                                                                                                 next timer
loop for 8 sounds
                                                          djnz
                                                                        loc_0_ED
                                                                        hl, #unk_0_608B
a, (hl)
                                                          ld
ld
                                                          and
jp
dec
                                                                        NZ, loc_0_108
                                                          ld
                                                                        a, (hl)
set_bg_sound_music
                                                          jр
0108
0108
0108
0108
0108 35
                                                                                                                                               ; CODE XREF: update_sounds+1F^j
                             loc_0_108:
                                                                        (hl)
                                                          dec
0109 2D
010A 7E
010B
010B
                                                          dec
                                                          ld
                                                                        a, (hl)
                                                                                                                                              ; get background sound/music
                                                                                                                                               ; CODE XREF: update_sounds+251j
                              set_bg_sound_music:
010B 010B 32 00 7C 010E 21 88 60 0111 AF 0112 BE 0113 CA 18 01 0116 35 0118 0118 0118 32 80 7D 011B C9 011B C9 011B
                                                          1d
                                                                        (in0), a
hl, #music_something
                                                                                                                                               ; background sound/music select
                                                          ld
xor
                                                                        a
(hl)
                                                                        Z, loc_0_118 (hl)
                                                          ср
                                                                                                                                               ; any music to play?
                                                          jp
dec
inc
                                                                                                                                              ; no, skip
; ???
; flag music start
                                                                                                                                              ; CODE XREF: update_sounds+33↑j; digital sound - dead
                              loc_0_118:
                                                          ld
ret
                                                                        (dsw_audio_irq), a
; End of function update_sounds
                                                       SUBROUTINE
                                                                                                                                              ; CODE XREF: check_coin_inserted+1A\protect\operatorname{hp} ; 0000:02B5\protect\operatorname{hp} ...
                             stop_sound:
011C 06 08
011C
011E AF
011F 21 00 7D
0122 11 80 60
0125
0125
0125 77
                                                          1d
                                                                        b, #8
                                                          xor
ld
                                                                        hl, #in2_snd_latch
                                                                                                                                               ; sound latch
                                                          ld
                                                                        de, #digital_snd_tmr_walk
                                                                                                                                               ; timers
                                                                                                                                              ; CODE XREF: stop_sound+D|;
; kill latch
; kill timer
                              loc_0_125:
                                                                        (hl), a (de), a
                                                          ld
0125 77
0126 12
0127 2C
0128 1C
0129 10 FA
012B 06 04
012D
012D 012D 12
                                                          ld
                                                                        loc_0_125
b, #4
                                                                                                                                              ; write 8 bytes
                                                          djnz
ld
                             loc_0_12D:
                                                                                                                                              ; CODE XREF: stop_sound+13|j
                                                          ld
                                                                        (de), a
012D 12
012E 1C
012F 10 FC
013I 32 80
0134 32 00
0137 C9
0137
0137
0137
0138 53
0138 53
0138 00 69
013B 80 41
013D 00 70
013F 80 81
                                                          djnz
ld
ld
                                                                        loc_0_12D
                                                                                                                                              ; another 4 copies ; audio IRQ
                                                                         (dsw_audio_irq), a
                                                                                                                                               ; background music = NONE
                                                                        (in0), a
                              ret
; End of function stop_sound
                                                                                                                                                 DATA XREF: 0000:007A o DMA mode (TC stop, CH0,1) CH0 address
                                                          .db 0x53
                              dma_reg_tbl:
```

.dw soft sprite ram

(p8257_drq), a

a, (h1) (i8257_io+8), a (hl)

.dw 0x4180

xor ld

ld

1d

dma_sprite_data_to_hw:

0141

.dw SPRAM_start .dw 0x8180 SUBROUTINE CHO terminal count (RD 0x180 bytes)

CH1 Address
CH1 terminal count (WR 0x180 bytes)

; CODE XREF: 0000:007D1p

; deassert DRQ0&1 0x53

; mode set

```
; copy in ROM
; RAM location
; 9 bytes to copy
; copy scores to RAM
ld
ld
ld
              (attract_mode_flag), a
(level), a
(lives_left), a
                                                                                  ; set attract mode flag
ld
call
call
             display_lives_and_level
read_dips_and_high_score_tbl
a, #1
             a, #1 (flipscreen), a
ld
ld
ld
             (nmi_sequencer), a (level_type), a
                                                                                  ; next sequence
xor
              (main_sequencer), a
ld
                                                                                  ; game screen sequencer
             (main_sequencer), a
display_1UP
de, #0x304
queue_fg_vector_fn
de, #0x202
queue_fg_vector_fn
de_#0x200
call
ld
call
ld
                                                                                  ; print message A
call
ld
                                                                                  ; display_score_or_high_score
call
             queue_fg_vector_fn
                                                                                  ; display_score_or_high_score
```

01D9 32 28 62
01DC CD B8 06
01DF CD 07 02
01E2 3E 01
01E4 32 82 7D
01E7 32 05 60
01EA 32 27 62
01ED AF
01EF 23 0A 60
01F1 CD 53 0A 60
01F1 CD 9F 30
01FA 11 02 02
01FD CD 9F 30

9F 30

; SUBROUTINE

01FA 11 01FD CD 0200 11

0203 CD

0206 0207 0207 C9

0207

```
CODE XREF: 0000:01DF<sup>p</sup> read DIPSW
                               read_dips_and_high_score_tbl:
                                                                          a, (dsw_audio_irq)
  0207 3A 80 7D
                                                            ld
  020A 4F
020B 21 20 60
020E E6 03
                                                            ld
ld
and
                                                                                                                                                 ; store
                                                                          hl, #lives_per_game
                                                                                                                                                 ; lives setting
; init no. of lives
; store no. of lives
 020E E6 03
0210 C6 03
0212 77
0213 23
0214 79
0215 0F
0216 0F
0217 E6 03
0219 47
                                                                          a, #3
(hl), a
                                                            add
                                                            ld
inc
ld
                                                                          a, c
                                                                                                                                                 ; DIPSW
                                                            rrca
rrca
and
ld
. £6 03
0219 47
021A 3E 07
021C CA 26 02
021F 3E 05
0221
                                                                                                                                                 ; bonus life setting
                                                                          b, a
                                                                          a, #7
Z, loc_0_226
a, #5
                                                            1d
                                                                                                                                                 ; 7,000?
                                                                                                                                                 ; yes, sl
; 5,000?
 0221
0221 C6 05
0223 27
                               loc_0_221:
                                                                                                                                                 ; CODE XREF: read_dips_and_high_score_tbl+1D|j
                                                            add
                                                                          a, #5
 0223 27
0224 10 FB
0226
0226
0226 77
                                                            daa
                                                            djnz
                                                                          loc 0 221
                                                                                                                                                ; calculate 10/15/20K points
                               loc_0_226:
                                                                                                                                                 ; CODE XREF: read_dips_and_high_score_tbl+15<sup>†</sup>j; bonus_setting
                                                                          (hl), a
                                                            ld
 0226 77
0227 23
0228 79
0229 01 01 01
022C 11 02 01
0231 17
0232 17
0233 17
                                                            inc
                                                                          hl
                                                            ld
ld
                                                                                                                                                 ; DIPSW
; 1C P1
; 1C P2
                                                                          a, c
bc, #0x101
                                                            ld
and
                                                                          de, #0x102
                                                                          #0x70 ; 'p
                                                                                                                                                 ; coinage setting
                                                            rla
rla
                                                            rla
 0233 17
0234 17
0235 CA 47 02
0238 DA 41 02
023B 3C
023C 4F
023D 5A
023E C3 47 02
                                                                                                                                                 ; coinage 0-7; 1C1C; 2-5 coins
                                                            rla
                                                                          Z, loc_0_247
C, loc_0_241
                                                             jp
                                                            jp
                                                                                                                                                 ; no. credits
; C = credits
; D = coins
                                                            inc
                                                            1d
                                                                               d
                                                                          loc_0_247
                                                            jр
 0241
0241
0241 C6 02
0243 47
0244 57
0245 87
0246 5F
0247
0247
0247 72
0247
0248 23
  0241
                                loc_0_241:
                                                                                                                                                 ; CODE XREF: read_dips_and_high_score_tbl+31^j
                                                            add
ld
                                                                          a, #2
b, a
d, a
a, a
                                                                                                                                                 ; no. coins
; B = coins
                                                            ld
add
                                                                                                                                                 ; D = coins
                                                            ld
                                                                          e, a
                                                                                                                                                 ; E = coins x2
                               loc_0_247:
                                                                                                                                                 ; CODE XREF: read_dips_and_high_score_tbl+2Efj
; read_dips_and_high_score_tbl+37fj
                                                                          (hl), d
                                                            ld
  0248 23
0249 73
024A 23
                                                                         hl
(hl), e
                                                            ld
                                                            inc
                                                                          hl
 024B 70
024C 23
024D 71
024E 23
                                                                          (hl), b
                                                            ld
                                                            inc
                                                                          (hl), c
                                                            inc
                                                                          hl
 024F 3A 80 7D
0252 07
0253 3E 01
0255 DA 59 02
                                                            ld
rlca
ld
                                                                          a, (dsw_audio_irq)
                                                                                                                                                ; read DIPSW
; upright?
                                                                         a, #1
C, loc_0_259
a
                                                                                                                                                ; yes, skip
 0255 DA 59 02
0258 3D
0259
0259 77
025A 21 65 35
025D 11 00 61
0260 01 AA 00
0263 ED B0
                                                            jp
dec
                                                                                                                                                 ; CODE XREF: read_dips_and_high_score_tbl+4Efj
                                loc_0_259:
                                                                          (hl), a
hl, #high_score_tbl
de, #high_score_tbl_ram
                                                            ld
                                                                                                                                                 ; store cocktail/upright
                                                            ld
                                                                                                                                                 ; destination in RAM
; length of table
                                                            ld
                                                                                 #0xAA;
                                                            ld
                                                                                                                                                 ; length of ta
; copy to ram
                                                            ldir
 0265 C9
0265
0265
                                ret; End of function read_dips_and_high_score_tbl
 0266
0266
0266
0266 06 10
                                INIT:
                                                                                                                                                 ; CODE XREF: 0000:00051j
                                                                          b. #16
                                                            ld
 0268 21 00 60
026B AF
026C
026C
                                                                                                                                                ; start of RAM
; zero byte
                                                            1d
                                                                          hl, #RAM_start
                                                                                                                                                 ; CODE XREF: 0000:0272 - i
                                loc_0_26C:
 026C 4F
026D
026D
                                                            ld
                                                                                                                                                 ; CODE XREF: 0000:0270 j
                               loc 0 26D:
  026D 77
                                                            ld
                                                                          (hl), a
                                                                                                                                                 ; zero memory
 026D 77

026E 23

026F 0D

0270 20 FB

0272 10 F8

0274 06 04

0276 21 00 70

0279
                                                            inc
                                                                                                                                                 ; next location
                                                                                                                                                 ; clear 256 bytes
; clear 4K bytes
                                                                          NZ, loc_0_26D
loc_0_26C
                                                            jr
djnz
                                                            ld
                                                                          b, #4
hl, #SPRAM_start
                                                            ld
                                                                                                                                                 ; start of sprite RAM
 0279
0279 4F
027A
027A
                               loc_0_279:
                                                                                                                                                 ; CODE XREF: 0000:027F-j
                                                            ld
                                                                                                                                                 ; CODE XREF: 0000:027D|j
                                loc 0 27A:
 027A

027A

027B

027B

027C

0D

027D

0D

027D

0D

027F

10 F8

0281

06 04

0283

3E 10

0285

21 00 74

0288
                                                            ld
inc
dec
                                                                          (hl), a
                                                                                                                                                 ; zero memory
; next location
                                                                                                                                                ; clear 256 bytes
; clear 1K bytes
                                                            ir
                                                                          NZ. loc 0 27A
                                                            djnz
ld
ld
                                                                          loc_0_279
b, #4
a, #0x10
hl, #VRAM_start
                                                                                                                                                 ; space character
; start of VRAM
                                                            ld
                                                                                                                                                 ; CODE XREF: 0000:028F|j
                               loc_0_288:
  0288 OE 00
                                                            ld
                                                                          c, #0
  028A
  028A
028A
                                loc_0_28A:
                                                                                                                                                 ; CODE XREF: 0000:028D|j
; clear memory
 028A 77
028B 23
028C 0D
028D 20
028E 10
                                                                          (hl), a
                                                            ld
                                                                                                                                                 ; next location
                                                            inc
                                                                          hl
 028B 23

028C 0D

028D 20 FB

028F 10 F7

0291 21 C0 60

0294 06 40
                                                                          NZ, loc_0_28A
loc_0_288
                                                                                                                                                 ; clear 256 bytes ; clear 1K bytes
                                                            djnz
                                                                          hl, #fg_vector_fn_params
b, #64
                                                            1d
                                                                                                                                                 ; fill 64 bytes
```

```
0296 3E FF
                                                                         a, #0xFF
                                                                                                                                                   ; fill byte
                                                           ld
0298
0298
0298
0299
                                                                                                                                                   ; CODE XREF: 0000:029A|j
; set to $FF
; next location
                             loc_0_298:
                                                                          (hl), a
0299 23
029A 10 FC
029C 3E CO
029E 32 BO 60
02A1 32 B1 60
02A4 AF
02A5 32 83 7D
02A8 32 86 7D
02AB 32 87 7D
                                                                         noc_0_298
a, #0xC0; 'L'
(fg_fn_queue_tail), a
(fg_fn_queue_head), a
                                                            djnz
                                                                                                                                                   ; set 64 bytes
                                                            ld
ld
ld
                                                                                                                                                  ; init queue tail ; init queue head
                                                            xor
                                                                          (spritebank), a
(palette_bank), a
(palette_bank+1), a
                                                            ld
ld
                                                                                                                                                  ; b0=0
; b1=0
                                                            ld
02AE 3C
02AF 3C 82 7D
02BZ 31 00 6C
02B5 CD 1C 01
                                                                          a (flipscreen), a
                                                            ld
ld
                                                                          sp, #0x6C00
stop_sound
                                                            call
02B8 3E 01
02BA 32 84 7D
02BD
                                                            1d
                                                                          a, #1 (nmi_mask), a
                                                                                                                                                   ; enable interrupts
                                                                                                                                                   ; CODE XREF: 0000:02D8-i
02BD
                              main loop:
                                                                                                                                                   ; 0000:02E1|j;
; DATA XREF: ...;
; msb of queue
; ptr head of queue
02BD 26 60
02BD
02BD
                                                            ld
02BD 02BF 3A B1 60 02C2 6F 02C3 7E 02C4 87 02C5 30 1C 02C7 CD 15 03 02CA CD 50 03 02CD 21 19 60 02DO 24
                                                                          a, (fg_fn_queue_head)
1, a
a, (hl)
                                                            ld
                                                            ld
ld
                                                                                                                                                   ; get queue entry
                                                                                                                                                   ; empty?
; no, skip
                                                            add
                                                                         a, a
NC, process_fg_fn_queue
flash_1UP_or_2UP
check_and_award_bonus
hl, #random_no+1
(hl)
                                                           jr
call
call
ld
                                                                                                                                                   ; random LSB
02D0 34
02D1 21 83 63
02D4 3A 1A 60
02D7 BE
                                                            inc
ld
ld
                                                                                                                                                   ; INC
                                                                          hl, #unk_0_6383
                                                                                (gen_purpose_timer)
                                                                          a, (
(hl)
                                                           cp
jr
ld
call
                                                                                                                                                  ; same?
; yes, loop
; generate LSB from timer
02D8 28 E3
02DA 77
02DB CD 7F 03
                                                                          Z, main_loop
(hl), a
difficulty_timer_tick
02DE CD A2 03
                                                                                                                                                  ; do something with a sprite
                                                            call
                                                                          sub_0_3A2
02E1 18 DA
02E3
02E3
                                                                          main_loop
02E3
02E3
02E3 E6 1F
02E5 5F
02E6 16 00
02E8 36 FF
                                                                                                                                                  ; CODE XREF: 0000:02C51i
                              process_fg_fn_queue:
                                                           and
ld
                                                                          #0x1F
                                                                                                                                                   ; E=param1 (vector entry
                                                                          e, a
d, #0
                                                                                                                                                   ; msb of vector table offset
; wipe param1
                                                            ld
                                                            ld
                                                                           (h1), #0xFF
                                                                         1
c, (hl)
02EA
02EB
                                                            inc
                                                                                                                                                   ; C=param2 (vector fn param)
                                                                          (hl), #0xFF
02EC
         36 FF
                                                            ld
                                                                                                                                                   ; wipe param2
02EE 2C
02EF 7D
02F0 FE C0
                                                                          a, 1
#0xC0 ; 'L'
                                                            ld
                                                                                                                                                   ; new queue head
                                                            ср
                                                                                                                                                      wrap?
02F2 30 02
02F4 3E C0
02F6
02F6
                                                                                                                                                   ; no, skip
                                                                          NC, loc_0_2F6
a, #0xC0; L
                                                            jr
1d
                                                                                                                                                  ; CODE XREF: 0000:02F2^j
                              loc_0_2F6:
02F6 32 B1 60
02F9 79
02FA 21 BD 02
02FD E5
                                                            ld
                                                                          (fg_fn_queue_head), a
                                                            ld
ld
                                                                                                                                                   ; vector fn param
                                                                          hl, #main_loop
                                                                                                                                                  ; return address
; jump table
                                                            push
ld
02FD E5
02FE 21 07 03
0301 19
0302 5E
                                                                          hl
                                                                          hl, #foreground_vector_table
0301 19
0302 5E
0303 23
0304 56
                                                                          hl, de
e, (hl)
hl
                                                            add
ld
                                                                                                                                                   ; entry index
                                                            inc
                                                                          d, (hl)
                                                            14
                                                                                                                                                   ; DE=vector address
0305 EB
0306 E9
                                                                          de, hl
                                                                                                                                                   ; HL=vector address
; jump
                                                            jр
0306
0307 1C 05
0307
0309 9B 05
                                                                                                                                                  ; DATA XREF: 0000:02FE<sup>†</sup>o; jump table
                               {\tt foreground\_vector\_table:.dw~add\_bonus\_and\_update\_high\_score}
                                                            .dw zero_score_or_high_score
030B C6 05
030D E9 05
030F 11 06
0311 2A 06
                                                            .dw display_score_or_high_score
.dw print_message_A
.dw display_credits_if_attract_mode
.dw update_bonus_timer
0311 2A 00
0313 B8 06
0315
0315
0315
                                                            .dw display_lives_and_level
                                                  SUBROUTINE
0315
0315
0315 3A 1A 60
0318 47
0319 E6 0F
031B C0
031C CF
031D 3A 0D 60
0320 CD 47 03
0323 11 E0 FF
0326 CB 60
0328 28 14
                               flash_1UP_or_2UP:
                                                                                                                                                   ; CODE XREF: 0000:02C71p
                                                            ld
                                                                          a, (gen purpose timer)
                                                                         b, a
#0xF
NZ
                                                                                                                                                  ; save timer
                                                           ld
                                                           and
ret
                                                                                                                                                   ; return if attract mode
                                                            rst
ld
                                                                          8
                                                                          a, (current player D)
                                                           call
ld
bit
                                                                          get_lUP_or_2UP_screen_location
de, #0xFFE0
4, b
z, loc_0_33E
                                                                                                                                                     column address offset unhide 1UP/2UP?
0328 28 14
032A 3E 10
032C 77
032D 19
                                                            jr
ld
ld
                                                                                                                                                   ; yes, skip
                                                                          a, #0x10
(h1), a
h1, de
                                                                                                                                                   ; " "
; wipe "1" or "2"
; next column
; wipe "U"
; next column
; wipe "P"
                                                            add
032E
032F
0330
                                                           ld
add
ld
                                                                          (hl), a
hl, de
(hl), a
0330 77
0331 3A 0F 60
0334 A7
0335 C8
0336 3A 0D 60
0339 EE 01
033B CD 47 03
033E
                                                                          a, (two_players)
                                                            1d
                                                            and
ret
                                                                                                                                                   ; 1 player?
; yes, return
                                                                          a, (current_player_D) #1
                                                            ld
                                                            xor
                                                            call
                                                                          get_1UP_or_2UP_screen_location
                                                                                                                                                   ; CODE XREF: flash 1UP or 2UP+13 | j
033E
                              loc 0 33E:
033E
033E 3C
033F 77
0340 19
0341 36 25
0343 19
0344 36 20
0346 C9
                                                                          a
(h1), a
h1, de
(h1), #0x25; '%'
h1, de
(h1), #0x20; ''
                                                                                                                                                   ; "1" or "2"
; next column
; "U"
                                                           ld
add
                                                            ld
                                                                                                                                                   ; next column ; "P"
                                                            add
                                                            ld
                                                            ret
                              ; End of function flash_1UP_or_2UP
0346
0346
```

```
0347
0347
0347
0347
0347
0347
0347 21 40 77
0347
0348 A7
034B C8
034C 21 E0 74
                                                            SUBROUTINE
                                                 get_1UP_or_2UP_screen_location:
                                                                                                                                                                                                                                            CODE XREF: flash_1UP_or_2UP+B|p
                                                                                                                                                                                                                                            flash_1UP_or_2UP+26\ppr "1UP" screen loaction
                                                                                              14
                                                                                                                     hl, #VRAM_start+0x340
                                                                                                                                                                                                                                      ; player 1?
; yes, return
; ptr "2UP" screen location
                                                                                              and
ret
034B C8
034C 21 E0 74
034F C9
034F
034F
                                                                                              1d
                                                                                                                    hl, #VRAM start+0xE0
                                                                                              ret
                                                 ; End of function get_1UP_or_2UP_screen_location
034F

0350

0350

0350

0350

0350

0350

0350

0355

0354

00

0355

21

83

83

83

00

60

0358

83

00

0358

83

00

0358

83

00

0358

83

00

0358

21

0361

0361

0361

0361

0361

0362

0362

0362

0364

037

0362

0363

0363

0364

0366

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036
                                                                             SUBROUTINE
                                                 check_and_award_bonus:
                                                                                                                                                                                                                                      ; CODE XREF: 0000:02CATp
                                                                                              ld
and
                                                                                                                     a, (awarded_bonus_life)
                                                                                                                                                                                                                                       ; already got bonus life?
                                                                                              ret
                                                                                                                     NZ
                                                                                                                                                                                                                                       ; ves. return
                                                                                              1d
                                                                                                                     hl, #p1_score+1
                                                                                              ld
                                                                                                                     a, (current_player_D)
                                                                                                                     a
Z, loc_0_361
                                                                                                                                                                                                                                      ; player 1?
; yes, skip
                                                                                              and
                                                                                              ir
                                                                                              ĭd
                                                                                                                     hl, #p2_score+1
                                                                                                                                                                                                                                           CODE XREF: check_and_award_bonus+C1j get hundreds from score only thousands
                                                loc 0 361:
                                                                                                                     a, (hl)
#0xF0; '-'
                                                                                              ld
                                                                                              and
ld
                                                                                                                     b, a
hl
                                                                                                                                                                                                                                           save
next score byte
                                                                                              inc
0365 23
0366 7E
0367 E6 0F
0369 B0
036A 0F
036B 0F
036C 0F
036C 0F
                                                                                              ld
and
                                                                                                                             (h1)
                                                                                                                                                                                                                                           get tens of thousands
only tens of thousands
B = thousands (and tens of)
                                                                                              or
                                                                                              rrca
                                                                                              rrca
rrca
                                                                                                                                                                                                                                      ; swap nibbles
                                                                                              rrca
036D 0F
036E 21 21 60
0371 BE
0372 D8
0373 3E 01
0375 32 2D 62
0378 21 28 62
0378 34
037C C3 B8 06
                                                                                                                    hl, #bonus_setting (hl) C
                                                                                              ld
                                                                                              cp
ret
                                                                                                                                                                                                                                      ; reached bonus score?
; no, return
                                                                                              ld
                                                                                                                    (awarded_bonus_life), a
hl, #lives_left
(hl)
                                                                                              ld
                                                                                                                                                                                                                                      ; flag that we've got the bonus
                                                                                              ld
                                                                                                                                                                                                                                       ; extra life
                                                                                                                     display_lives_and_level
                                                 jp
; End of function check;
                                                                                                                    and award bonus
037C
037F
037F
037F
037F
037F
                                                                                         SUBROUTINE
                                                difficulty_timer_tick:
                                                                                                                                                                                                                                      ; CODE XREF: 0000:02DB1p
037F 21 84 63
0382 7E
0383 34
0384 A7
                                                                                                                    hl, #unk_0_6384
a, (hl)
(hl)
                                                                                              1d
                                                                                              ld
                                                                                              inc
0384 A7
0385 C0
0386 21 81
0389 7E
038B 47
038B 34
038C E6 07
038F 78
0390 0F
0391 0F
0392 0F
                                                                                              ret
ld
ld
                                                                                                                    hl, #unk_0_6381
a, (hl)
b, a
                      81 63
                                                                                              ld
                                                                                                                     b, a (hl)
                                                                                              inc
and
ret
                                                                                              1d
                                                                                                                     a, b
                                                                                              rrca
rrca
                                                                                              rrca
                                                                                                                    b, a
a, (level)
a, b
0393 47
0394 3A 29 62
0397 80
0398 FE 05
                                                                                              ld
                                                                                                                    a,
a,
#5
                                                                                              ld
add
                                                                                              ср
                                                                                                                    C, loc_0_39E
a, #5
039A 38 02
039C 3E 05
039E
039E
                                                                                                                                                                                                                                     ; CODE XREF: difficulty timer tick+1B<sup>†</sup> i
                                                loc 0 39E:
039E 32 80 63
03A1 C9
03A1
03A1
                                                                                              1d
                                                                                                                     (unk_0_6380), a
                                                ret
; End of function difficulty_timer_tick
03A1

03A2

03A2

03A2

03A2

03A2

03A2

03A2

03A4 F7

03A5 D7

03A6 3A 50 63

03A9 0F

03AA D8

03AB 21 B8 62
                                                                                            SUBROUTINE
                                                 sub_0_3A2:
                                                                                                                                                                                                                                      ; CODE XREF: 0000:02DETp
                                                                                                                     a, #3
0x30
0x10
                                                                                                                                                                                                                                      ; return if level bit not set ; return if mario not alive
                                                                                              rst
rst
                                                                                              ld
rrca
                                                                                                                     a, (unk_0_6350)
                                                                                              ret
03AB 21 B8 62
03AE 35
03AF C0
03BO 36 04
                                                                                              ld
dec
ret
ld
                                                                                                                    hl, #unk_0_62B8 (hl)
             CO
36 04
3A B9 62
0F
                                                                                                                     NZ (hl), #4
03B0 30
03B2 3A
03B5 0F
03B6 D0
03B7 21
                                                                                              ld
rrca
                                                                                                                     a, (unk_0_62B9)
                                                                                              ret
ld
             21 29 6A
06 40
                                                                                                                     hl, #soft_sprite_ram+0x129
                                                                                                                                                                                                                                   ; sprite #173, flipv & code
03BA 21 29 6A
03BA 06 40
03BC DD 21 A0 66
03C0 0F
03C1 D2 E4 03
03C4 DD 36 09 02
03C8 DD 36 0A 02
                                                                                                                    b, #<mark>0x40</mark>; '@'
ix, #unk_0_66A0
                                                                                              ld
ld
                                                                                              rrca
                                                                                              jp
ld
ld
                                                                                                                    NC, loc_0_3E4
                                                                                                                     9(ix), #2
0xA(ix), #2
 03CC 04
03CD 04
                                                                                              inc
                                                                                                                     b
                                                                                                                     b
             CD F2 03
21 BA 62
35
                                                                                                                     sub_0_3F2
h1, #unk_0_62BA
(h1)
                                                                                              call
 03D4
                                                                                              dec
 03D5 C0
03D6 3E 01
03D8 32 B9 62
                                                                                              ret
                                                                                                                     a, #1
(unk_0_62B9), a
                                                                                              ld
 03DB 32 A0 63
                                                                                              1d
                                                                                                                     (unk 0 63A0), a
 03DE
```

```
; CODE XREF: sub_0_3A2+4D|j
                              loc_0_3DE:
03DE 3E 10
                                                                              #0x10
03E0 32 BA 62
03E3 C9
03E4
                                                           ld
                                                                         (unk_0_62BA), a
03E4
03E4
03E4 DD 36 09 02
03E8 DD 36 0A 00
03EC CD F2 03
03EF C3 DE 03
03EF
03EF
                              loc_0_3E4:
                                                                                                                                                ; CODE XREF: sub_0_3A2+1F j
                              ld 9(ix), #2
ld 0xA(ix), #0
call sub_0_3F2
jp loc_0_3DE
; End of function sub_0_3A2
03F2
03F2
03F2
03F2
                                                         SUBROUTINE
03F2
03F2
03F2 70
03F2 70
03F3 3A 19 60
03F6 0F
03F7 D8
03F8 04
03F9 70
                                                                                                                                                ; CODE XREF: sub_0_3A2+2C<sup>p</sup>;
; sub_0_3A2+4A<sup>p</sup>
                              sub_0_3F2:
                                                           ld
                                                                         (hl), b
                                                           1d
                                                                         a, (random_no+1)
                                                           rrca
ret
                                                           inc
                                                                         b
                                                           1d
                                                                         (hl), b
03FA C9
03FA
03FA
                              ret; End of function sub_0_3F2
03FB
03FB
03FB
03FB
                                                         SUBROUTINE
                              ; CODE XREF: 0000:1980 p
03FB
03FB 3A 27 62
03FE FE 02
0400 C2 13 04
0403 21 08 69
0406 3A A3 63
0409 4F
                                                                              (level_type)
                                                                                                                                                 ; cement pies?
                                                           ср
                                                                                                                                                , telegit ples?
; no, skip
; sprite #2 y coord
; get top conveyer speed/direction
; kong location adjustment
; add +/-1 to y for 10 sprites
; sprite #4, y coord
                                                                         NZ. loc 0 413
                                                           jp
ld
                                                                              , #soft_sprite_ram+8
(unk_0_63A3)
                                                                         hl,
                                                           ld
ld
                                                                         a,
                                                                         a, (soft_sprite_ram+0x10) #59
040A FF
040B 3A 10 69
040E D6 3B
0410 32 B7 63
0413
0413 3A 91 63
0416 A7
0417 C2 26 04
041A 3A 1A 60
041D A7
041E C2 86 04
040A FF
                                                           rst
                                                           1d
                                                                         (unk_0_63B7), a
                                                           ld
                              loc_0_413:
                                                                                                                                                ; CODE XREF: animate_kong_and_pauline+5<sup>†</sup>j
                                                           ld
                                                                         a, (kong_thrash_flag)
                                                           and
                                                                                                                                                ; thrashing arms?
; yes, continue
                                                           jp
ld
and
                                                                         NZ. loc 0 426
                                                                         a, (gen_purpose_timer)
U41D A7
041E C2 86 04
0421 3E 01
0423 32 91 63
0426
                                                                                                                                                 ; expired?
                                                           jp
ld
ld
                                                                                                                                                 ; no, animate Pauline
                                                                         NZ, animate_pauline
                                                                                                                                                 ; flag thrashing
                                                                         (kong_thrash_flag), a
0426
0426 21 90 63
0429 34
042A 7E
                              loc 0 426:
                                                                                                                                                ; CODE XREF: animate_kong_and_pauline+1Cfj
                                                                        hl, #kong_thrash_tmr
(hl)
a, (hl)
#128
                                                           ld
                                                                                                                                                ; inc
; get timer
; finished thrashing?
; yes, continue
                                                           inc
ld
042A 7E
042B FE 80
042D CA 64 04
0430 3A 93 63
0433 A7
0434 C2 86 04
0437 7E
0438 E6 1F
0438 B C2 86 04
0432 21 CF 39
0441 CB 68
0443 20 03
0445 21 F7 39
0448 CD 4E 00
                                                           cp
jp
ld
                                                                         Z, draw_kong_mouth_closed
a, (barrel_deployment)
                                                                                                                                                ; deployment in progress?
; yes, skip (no thrashing)
; get timer
                                                           and
                                                           jp
ld
ld
                                                                         NZ, animate_pauline
                                                                         a, (hl)
b, a
#31
                                                                                                                                                ; time to thrash arms?
; no, skip (animate Pauline)
                                                           and
                                                                        #31
NZ, animate_pauline
hl, #dk_thrash_right_spr
5, b
NZ, do_kong_thrash
hl, #dk_thrash_left_spr
                                                           jp
ld
bit
                                                                                                                                                ; left/right depending on timer
                                                           jr
                                                           ĺd
                                                                                                                                                ; CODE XREF: animate_kong_and_pauline+48|j
                              do_kong_thrash:
0448 CD 4E 00
044B 3E 03
044D 32 82 60
0450
                                                           call
                                                                         copy_sprites_2_11_data
                                                                                                                                                ; tmr=3
                                                           ld
                                                                         (digital_snd_tmr_thump), a
0450

0450

0450 3A 27 62

0453 0F

0454 D2 78 04

0457 0F

0458 DA 86 04

045B 21 0B 69

045E 0E FC
                              loc_0_450:
                                                                                                                                                ; CODE XREF: animate_kong_and_pauline+7A|j
                                                           1d
                                                                         a, (level_type)
                                                                                                                                                 ; level 2/4?
                                                           rrca
                                                           jp
rrca
jp
ld
                                                                         NC. loc 0 478
                                                                                                                                                ; yes, skip
; level 3?
                                                                              animate_pauline
                                                                                                                                                ; yes, skip
; sprite #2, x coord
                                                                         hl, #soft_sprite_ram+0xB
c, #0xFC; '3'
0x38
                                                           ld
0460 FF
0461 C3 86 04
0464
0464
                                                           rst
jp
                                                                                                                                                ; subtract 4 from x for 10 sprites
                                                                         animate_pauline
0464
0464 AF
0465 77
                              draw_kong_mouth_closed:
                                                                                                                                                ; CODE XREF: animate_kong_and_pauline+32<sup>†</sup>j
                                                           xor
ld
0465 77
0466 23
0467 77
0468 3A 93 63
046B A7
                                                                         (hl), a
                                                                                                                                                ; zero kong_animation_tmr
                                                           inc
ld
                                                                         (hl),
                                                           ld
                                                                         a, (barrel_deployment)
                                                                                                                                                ; deployment in progess?
                                                           and
046C C2 86 04
046F 21 5C 38
0472 CD 4E 00
0475 C3 50 04
                                                                         NZ, animate_pauline
hl, #dk_normal_spr
copy_sprites_2_11_data
loc_0_450
                                                           jp
ld
                                                                                                                                                ; no, continue
                                                           call
                                                           jр
0475 C3 50 04
0478
0478
0478 21 08 69
047B 0E 44
047D D2
                                                                                                                                                ; CODE XREF: animate_kong_and_pauline+59<sup>†</sup>j; ptr sprite #2 (x coord)
                              loc 0 478:
                                                                         hl, #soft_sprite_ram+8
c, #0x44; 'D'
                                                           ld
                                                           ld
rrca
                                                                         c, #0x44 ;
                                                                                                                                                ; level 2?
; yes, skip
047D OF
047E D2 85 04
0481 3A B7 63
0484 4F
0485
                                                                         NC, loc_0_485
a, (unk_0_63B7)
                                                           jp
ld
                                                                                                                                                ; CODE XREF: animate_kong_and_pauline+83<sup>†</sup>j
; add C to y coord of 10 sprites
0485
                              loc_0_485:
0485 FF
                                                          rst
                                                                         0×38
0486
0486
                                                                                                                                                ; CODE XREF: animate_kong_and_pauline+23<sup>†</sup>j
; animate_kong_and_pauline+39<sup>†</sup>j ...
                              animate_pauline:
0486 3A 90 63
                                                          1d
                                                                         a, (kong_thrash_tmr)
```

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
0489 4F
0489 4F
048A 11 20 00
048D 3A 27 62
0490 FE 04
0492 CA BE 04
0495 79
0496 A7
0497 CA A1 04
0490 3E EF
                                                                  de, #0x20 ; ' '
a, (level_type)
#4
                                                      ld
                                                      ld
                                                                                                                                    ; rivets?
; yes, skip
; kong_thrash_tmr
                                                      ср
                                                                   Z, display_help_rivets_level
                                                      jp
ld
                                                                   a,
                                                      and
                                                                                                                                       finished?
                                                                   Z, wipe_help
                                                      jp
ld
                                                                                                                                      yes, skip
                                                                   a, #0xEF ;
                                                                                                                                    ; time to display help?
; yes, skip
049C CB 71
049E C2 A3 04
04A1
04A1
                                                      bit
                                                                   NZ, display_or_wipe_help
                                                                                                                                   ; CODE XREF: animate_kong_and_pauline+9Cfj
; blank tiles
                           wipe_help:
04A1 3E 10
04A3
04A3
04A3 21 C4 75
                                                     1d
                                                                   a. #0x10
                                                                                                                                   ; CODE XREF: animate_kong_and_pauline+A3<sup>†</sup>j
; screen position for HELP!
                           display_or_wipe_help:
                                                                   hl, #VRAM start+0x1C4
                                                      ld
04A6 CD 14 05
04A9 3A 05 69
04AC
                                                      call
                                                                  display_3_tiles_HL
a, (soft_sprite_ram+5)
                                                                                                                                    ; display/wipe HELP!
; sprite #1, flipy & code
04AC
04AC 32 05 69
04AC
04AF CB 71
                                                                                                                                    ; CODE XREF: animate kong and pauline+F3 h
                           make_pauline_run:
                                                                                                                                    ; animate_kong_and_pauline+10B ; sprite #1, flipy & code
                                                                   (soft_sprite_ram+5), a
                                                      bit
04B1 C8
                                                      ret
04B2
04B3
                                                      ld
ld
04B4 E6 07
                                                      and
04B4 E6 07
04B6 C0
04B7 78
04B8 EE 03
04BA 32 05 69
04BD C9
                                                      ret
                                                                   NZ.
                                                                  a, b
#3
                                                                                                                                    ; sprite #1, flipy & code
; toggle sprites 0x11/0x12 pauline running
; sprite #1, flipy & code
                                                      ld
                                                      xor
ld
                                                                   (soft_sprite_ram+5), a
                                                     ret
04BE
04BE
                                                                                                                                    ; CODE XREF: animate_kong_and_pauline+97<sup>†</sup>j
                           display_help_rivets_level:
04BE 04BE 3E 10 04C0 21 23 76 04C3 CD 14 05 04C9 CD 14 05 04CC CB 71 04CE CA 09 05 04D1 3A 03 62 04D4 FE 80 04D6 D2 F1 04 04D9 3E DF
04BE
                                                                  a, #0x10
h1, #VRAM_start+0x223
display_3_tiles_HL
h1, #VRAM_start+0x183
                                                     ld
ld
                                                                                                                                   ; blank tiles
; screen pos
                                                      call
                                                      ld
                                                                                                                                   ; screen pos
                                                      call
bit
                                                                   display_3_tiles_HL
                                                                   6, c
Z, loc_0_509
                                                      jp
ld
                                                                        (mario_y_coord)
                                                                                                                                   ; mario left/right side of screen?
; right, skip
; "HELP!" to the left
; screen pos
; display "HELP!"
                                                      cp
jp
ld
                                                                  #UXOU ; 'C'
NC, display_help_right
a, #0xDF;
hl, #VRAM_start+0x223
04D9 3E DF
04DB 21 23 76
04DE CD 14 05
04E1
                                                      14
                                                     call
                                                                   display_3_tiles_HL
04E1
04E1
04E1 3A 01 69
04E4 F6 80
04E6 32 01 69
04E9 3A 05 69
                                                                                                                                    ; CODE XREF: animate_kong_and_pauline+116|j
; sprite #0, flipy & code
; flipy
                           display_pauline_left:
                                                                      (soft_sprite_ram+1)
x80 ; 'Ç'
                                                      or
                                                                   (soft_sprite_ram+1),
                                                      ld
                                                                                                                                    ; save
                                                                                                                                    ; sprite #1, flipy & code
; flipy
                                                      1d
                                                                   a, (soft_sprite_ram+5)
#0x80 ; 'C'
04EC F6 80
04EE C3 AC 04
                                                                   make_pauline_run
                                                      jp
04F1
04F1
04F1
04F1 3E EF
04F3 21 83 75
04F6 CD 14 05
                                                                                                                                   ; CODE XREF: animate_kong_and_pauline+DB<sup>†</sup>j
; "HELP!" to the right
; screen pos
; display "HELP!"
                           display_help_right:
                                                                   a, #0xEF; ''hl, #VRAM_start+0x183
                                                      ld
                                                      call
                                                                   display_3_tiles_HL
; CODE XREF: animate_kong_and_pauline+113|j
; sprite #0, flipy & code
; not flipped
                            display_pauline_right:
                                                                       (soft_sprite_ram+1)
                                                      ld
                                                      and
04FC E6 7F
04FE 32 01
0501 3A 05
0504 E6 7F
                                                     ld
ld
                                                                                                                                    ; save
; sprite #1, flipy & code
; not flipped
                                                                  a, (soft_sprite_ram+5)
#0x7F; ' '
                                                                    (soft_sprite_ram+1),
                                                      and
0506 C3 AC 04
0509
0509
                                                                  make_pauline_run
                                                      jр
0509
0509 3A 03 62
050C FE 80
050E D2 F9 04
                           loc_0_509:
                                                                                                                                   ; CODE XREF: animate_kong_and_pauline+D31j
                                                                  a, (mario_y_coord)
#0x80 ; 'C'
NC, display_pauline_right
                                                     ld
                                                      ср
                                                      αĖ
0511 C3 E1 04
0511
0511
0514
                            jp display pauline left; End of function animate_kong_and_pauline
0514
0514
0514
                                  SUBROUTINE
                           display_3_tiles_HL:
                                                                                                                                      CODE XREF: animate_kong_and_pauline+ABîp
0514
                                                                                                                                       animate_kong_and_pauline+C8<sup>†</sup>p ... 3 tiles
0514
0514 06 03
0514
0516
0516
                                                                  b, #3
                                                                                                                                    ; CODE XREF: display_3_tiles_HL+5|j
                           loc 0 516:
0516 77
0517 19
0518 3D
                                                                                                                                    is store tile
is next row/column
is prev tile
is loop for 3 tiles
                                                      14
                                                                  (hl),
hl, de
                                                      add
                                                      dec
        10 FB
                                                     dinz
                                                                   loc 0 516
051B C9
051B
051B
                           ret
; End of function display_3_tiles_HL
051C
051C
051C
                                  SUBROUTINE
                           add_bonus_and_update_high_score:
                                                                                                                                      CODE XREF: 0000:0698 p
051C 4F
051C
                                                                                                                                    ; 0000:06A5|j
; DATA XREF: ...
051C
                                                      ld
```

; return if attract mode

; 3 bytes of score

051D CF 051E CD 5F 05

0522 81 0523 81 0524 4F 0525 21 29 35 0528 06 00 052A 09 052B A7

052C 06 03 052E

0521 79 0522 81 rst call

ld add

add ld

ld ld add

1d

current_player_score_DE

hl, #bonus_points_tbl

a b, #3

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
                         loc_0_52E:
                                                                                                                         CODE XREF: add_bonus_and_update_high_score+18|j
                                                                                                                       ; get score BCD pair
; add bonus BCD pair
; adjust for BCD
; update score BCD pair
052E 1A
                                                ld
052E 1A
052F 8E
0530 27
0531 12
0532 13
0533 23
0534 10 F8
0536 D5
                                                adc
daa
ld
                                                            a, (hl)
                                                            (de), a
                                                inc
                                                            de
hl
                                                                                                                       ; next byte
; loop through score
                                                            loc_0_52E
                                                djnz
                                                push
                                                            de
0537 1B
0538 3A 0D 60
053B CD 6B 05
053E D1
                                                 dec
                                                            de
                                                                                                                       ; ptr score
                                                ld
call
                                                            a, (current_player_D)
display_player_A_score
                                                pop
dec
053F 1B
0540 21 BA 60
0543 06 03
0545
                                                            hl, #high_score+2
b, #3
                                                                                                                       ; MSB ; 3 bytes to compare
                                                ld
                                                ld
0545
0545 1A
0546 BE
0547 D8
0548 C2 50 05
054B 1B
054C 2B
                         loc_0_545:
                                                                                                                       ; CODE XREF: add_bonus_and_update_high_score+31|j
                                                                                                                         get byte from score
less than high score?
yes, return
                                                ld
                                                            a, (de)
(hl)
                                                ср
                                                ret
                                                jp
dec
                                                            NZ, new_high_score
                                                                                                                          greater, we have a high score
                                                                                                                       ; same, check next byte; loop through 3 bytes
054D 10 F6
                                                dinz
                                                            loc 0 545
054D 10 F6
054F C9
0550
0550
0550
0550 CD 5F 05
0553 21 B8 60
                                                                                                                       ; CODE XREF: add_bonus_and_update_high_score+2Cfj
                         new_high_score:
                                                call
ld
                                                            current_player_score_DE
hl, #high_score
0556
0556 1A
0557 77
0558 13
                         update_high_score:
                                                                                                                       ; CODE XREF: add_bonus_and_update_high_score+3E|j
                                                                                                                       ; get score byte
; copy to high score
                                                            a, (de)
(hl), a
                                                ld
                                                inc
                                                            de
0559 23
055A 10 FA
055C C3 DA 05
055C
                                                                                                                       ; next location
; loop through 3 bytes
                                                            h1
                                                             ---
update_high_score
                                                            display_high_score
                                                jр
                         ; End of function add_bonus_and_update_high_score
055C
055F
055F
055F
055F
055F
                                               SUBROUTINE
                         current_player_score_DE:
                                                                                                                         CODE XREF: add_bonus_and_update_high_score+21p
055F 11 B2 60
                                                                                                                       ; add_bonus_and_update_high_score+341p
055F
                                                14
                                                            de, #pl score
0562 3A 0D 60
0565 A7
                                                ld
and
                                                            a, (current_player_D)
                                                                                                                       ; player one?
; yes, return
0566 C8
0567 11 B5 60
056A C9
056A
                                                ret
                                                ld
                                                            de, #p2_score
                                                ret
                         ; End of function current_player_score_DE
056A
056B
056B
056B
                                              SUBROUTINE
056B
056B DD 21 81 77
056B
                                                                                                                         CODE XREF: add_bonus_and_update_high_score+1F^p display_score_or_high_score+11+j
                         display_player_A_score:
                                                ld
                                                            ix, #VRAM start+0x381
056F A7
                                                and
                                                            a
Z, display_score_HL
ix, #VRAM_start+0x121
0570 28 0A
0572 DD 21 21 75
0576 18 04
                                                jr
                                                            display_score_HL
0578
0578
0578
                                                                                                                         CODE XREF: display_score_or_high_score+17|j
                        display_score_at_hs_location:
0578 DD 21 41 76
                                                            ix, #VRAM_start+0x241
                                                ld
                                                                                                                       ; screen position for score
057C
057C
057C EB
                                                                                                                       ; CODE XREF: display_player_A_score+5<sup>†</sup>j; display_player_A_score+B<sup>†</sup>j ...
                         display_score_HL:
                                                            de, hl
de, #0xFFE0
bc, #0x304
057C
057D 11 E0 FF
0580 01 04 03
0583
                                                                                                                       ; column address delta
; 3=6 digits
                                                ld
0583
0583 7E
0583
                                                                                                                       ; CODE XREF: display_player_A_score+25|;
; display_credits+11|;
; get bcd digit pair
                         display_B_bcd_digit_pairs:
                                                ld
                                                            a, (hl)
0584 OF
                                                rrca
0585 OF
0586 OF
0587 OF
                                                rrca
rrca
                                                                                                                      ; shift high nibble
                                                rrca
0588 CD 93 05
                                                call
                                                            display_score_digit
058B 7E
058C CD 93 05
058F 2B
0590 10 F1
                                                ld
call
                                                            a, (hl)
display_score_digit
                                                                                                                      ; low nibble
                                                                                                                       ; next digit pair
; loop through 6 digits
                                                            hl
display_B_bcd_digit_pairs
                                                dec
djnz
0592 C9
0592
0592
                         ret; End of function display_player_A_score
0593
0593
0593
0593
                                SUBROUTINE
0593
0593 E6 OF
0593
                                                                                                                         CODE XREF: display_player_A_score+1D^p display_player_A_score+21^p low nibble only
                         display_score_digit:
                                                and
0595 DD 77 00
                                                1d
                                                            0(ix), a
                                                                                                                         display digit
next column
0598 DD 19
059A C9
                                                add
ret
                                                            ix, de
059A
                         ; End of function display score digit
059A
```

059B 059B 059B 059B

059B

05A4 A7

059B 059B FE 03

059D D2 BD 05

05A0 F5 05A1 21 B2 60

05A5 CA AB 05

SUBROUTINE

NC, loc_0_5BD

hl, #pl_score

Z, loc_0_5AB

zero_score_or_high_score:

ср

jp push ld

and

; CODE XREF: zero_score_or_high_score+24|p; DATA XREF: 0000:0309|o

; zero all scores?

; yes, skip

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
05A8 21 B5 60
                                                                hl, #p2_score
                                                   ld
05AB
05AB
                          loc_0_5AB:
                                                                                                                               ; CODE XREF: zero_score_or_high_score+A| j
05AB FE 02
05AD C2 B3 05
                                                                NZ, loc_0_5B3
                                                    jp
ld
05B0 21 B8 60
                                                                hl, #high_score
05B3
05B3
05B3 AF
                           loc_0_5B3:
                                                                                                                               ; CODE XREF: zero_score_or_high_score+12†j
                                                    xor
                                                                a
(hl), a
05B3 AF
05B4 77
05B5 23
05B6 77
05B7 23
05B8 77
                                                    1d
                                                    inc
ld
                                                                hl (hl), a
                                                    inc
                                                                hl
                                                    1d
                                                                 (hl), a
05B9 F1
05BA C3 C6 05
                                                    pop
jp
                                                                display_score_or_high_score
05BD
05BD
05BD
05BD 3D
05BD 3D
05BB F5
05BF CD 9B 05
05C2 F1
05C3 C8
                                                                                                                               ; CODE XREF: zero_score_or_high_score+2fj
; zero_score_or_high_score+29fj
; next score to zero
                           loc_0_5BD:
                                                   dec
                                                   push
call
                                                                af
zero_score_or_high_score
                                                    pop
ret
                                                                af
Z
                                                                                                                               ; return when done
05C3 C8
05C4 18 F7
05C4
05C6
05C6
05C6
05C6
                           jr loc_0_5BD; End of function zero_score_or_high_score
                                                                                                                               ; zero next score
                                                 SUBROUTINE
05C6
05C6 FE 03
05C6
05C6
                                                                                                                               ; CODE XREF: zero_score_or_high_score+1F<sup>†</sup>j
; display_score_or_high_score+1C<sup>†</sup>p
; DATA XREF: ...
                          display_score_or_high_score:
05C8 CA E0 05
05CB 11 B4 60
05CE A7
                                                    jp
ld
                                                                 Z, loc 0 5E0
                                                                de, #pl_score+2
                                                    and
                                                                a
Z, loc_0_5D5
05CF CA D5 05
                                                   jp
ld
05D2 11 B7 60
05D5
05D5
                                                                      #p2_score+2
                           loc 0 5D5:
                                                                                                                               ; CODE XREF: display score or high score+91j
05D5 FE 02
05D7 C2 6B
05DA
                                                    ср
       C2 6B 05
                                                    jp
                                                                NZ, display_player_A_score
05DA
                          display_high_score:
                                                                                                                               ; CODE XREF: add bonus and update high score+401j
05DA 11 BA 60
05DD C3 78 05
05E0
                                                    14
                                                                de, #high score+2
                                                                display_score_at_hs_location
                                                    jр
05E0
05E0
05E0 3D
05E0
                                                                                                                               ; CODE XREF: display_score_or_high_score+2<sup>†</sup>j
; display_score_or_high_score+21<sup>†</sup>j
                           loc_0_5E0:
05E1 E5
                                                   push
call
                                                                af
                                                                ar
display_score_or_high_score
af
Z
05E1 F3
05E2 CD C6 05
05E5 F1
05E6 C8
                                                   pop
ret
05E7 18 F7
05E7
05E7
05E9
                           jr loc_0_5E0 ; End of function display_score_or_high_score
05E9
                                 S U B R O U T I N E
05E9
05E9
                                                                                                                               ; CODE XREF: display_credits+2|p
; display_start_1P_2P_get_selectio+18|p
; DATA XREF: ...
05E9
                          print_message_A:
05E9 21 4B 36
05E9
05E9
                                                                hl, #message_table
05EC 87
                                                    add
                                                                <mark>a, a</mark>
af
                                                                                                                               ; convert entry to offset
05EC 87
05ED F5
05EE E6 7F
05F0 5F
05F1 16 00
05F3 19
05F4 5E
05F5 23
                                                   push
and
ld
                                                                 #0x7F ;
                                                                                                                               ; mask off 'wipe' bit
                                                                e, a
d, #0
hl, de
e, (hl)
                                                                                                                               ; DE = offset
                                                    1d
                                                    add
ld
                                                                                                                               ; pointer to entry
                                                    inc
05F6 56
05F7 EB
05F8 5E
05F9 23
                                                   ld
ex
ld
                                                                d, (hl)
de, hl
e, (hl)
                                                                                                                               ; DE = entry (word)
                                                                e,
hl
                                                    inc
05FA 56
05FB 23
05FC 01 E0 FF
05FF EB
                                                   ld
inc
ld
                                                                d, (hl)
                                                                                                                               ; DE = screen address to print
; HL = message text
; screen column address inc value
; DE = text, HL = screen address
                                                                bc, #0xFFE0
                                                    ex
                                                                de, hl
0600
0600
0600 1A
0601 FE
                                                                                                                                  CODE XREF: print_message_A+26|j
                           loc_0_600:
                                                                                                                                  get message character
end of message?
                                                    ld
                                                                a, (de)
#0x3F; '?
       FE 3F
                                                    cp
jp
ld
                                                                                                                                  yes, exit
display character on screen
restore original entry index
0603 CA 26 00
0606 77
0607 F1
                                                                Z, pop_hl_ret(hl), a
                                                                af
NC, loc_0_60C
(hl), #0x10
                                                    pop
0607 F1
0608 30 02
060A 36 10
060C
060C F5
060D 13
060E 09
                                                   jr
ld
                                                                                                                                  not wiping, skip
display space character on screen
                                                                                                                                  CODE XREF: print_message_A+1F^j
                           loc 0 60C:
                                                   push
inc
add
                                                                                                                               ; store original entry index
; next message character
; next screen location
; loop through message
                                                                de
hl, bc
060F 18 EF
                                                    ir
                                                                loc 0 600
060F
060F
0611
0611
0611
                           ; End of function print
                           ; DATA XREF: 0000:030F1o
0611 3A 07 60
0614 0F
0615 D0
                                                                                                                               ; in attract mode?
; no, return
                                                    rrca
```

ret NC

SUBROUTINE

print_message_A

display_credits:

1d

call

0616 0616 0616 0616 3E 05

0618 CD E9 05

CODE XREF: display_start_1P_2P_get_selectio+1B \mid p 0000:141E \mid p ...

"credit"

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
061B 21 01
                                                                        hl, #no_of_credits
                                                          ld
061B 21 01 60
061E 11 E0 FF
0621 DD 21 BF 74
0625 06 01
0627 C3 83 05
0627
0627
0628
062A
                                                          ld
                                                                        de, #0xFFE0
                                                                                                                                               ; column address delta
                                                          ld
ld
                                                                        ix, #VRAM_start+0xBF
b, #1
display_B_bcd_digit_pairs
                                                                                                                                              ; screen position of credits
; 1=2 digits
                                                          jр
                              ; End of function display_credits
062A
062A 7
062B A 7
062B CA 91 06
062E 3A 8C 63
0631 A7
0632 C2 A8 06
0635 3A B8 63
                                                                                                                                              ; DATA XREF: 0000:0311†o
                              update_bonus_timer:
                                                                       Z, loc_0_691
a, (bonus_timer)
                                                          jp
ld
                                                          and
                                                                                                                                              ; zero?
; no, skip
                                                                        NZ, loc_0_6A8
a, (unk_0_63B8)
                                                          jp
ld
                                                          and
0638 A7
0639 C0
063A 3A B0 62
063D 01 0A 00
                                                          ret
ld
                                                                        NZ
                                                                        a, (unk_0_62B0)
bc, #0xA
                                                          ld
0640
                              loc_0_640:
                                                                                                                                              ; CODE XREF: 0000:0642-j
                                                          sub
                                                          jp
ld
rlca
                                                                        NZ, loc_0_640
                                                                        a, b
                                                          rlca
                                                          rlca
                                                          rlca
rlca
ld
ld
                                                                                                                                              ; set initial bonus timer value
                                                                         (bonus_timer),
                                                                        hl, #bonus_graphic_tiles
de, #VRAM_start+0x65
a, #6
                                                                                                                                              ; screen position for bonus
; 6 columns of tiles to display
                                                          ld
                                                                                                                                               ; CODE XREF: 0000:0664 j
                              loc 0 655:
0655 DD 21 1D 00
0659 01 03 00
065C ED B0
                                                                       ix, #0x1D
bc, #3
                                                                                                                                              column inc
; 3 tiles to display
; display bonus tiles
; next column
                                                          1d
                                                          ld
ldir
065C ED B0
065E DD 19
0660 DD E5
0662 D1
0663 3D
0664 C2 55 06
0667 3A 8C 63
066A
                                                                        ix. de
                                                          add
                                                          push
pop
dec
                                                                        ix
de
                                                                                                                                               ; screen position
                                                                                                                                              ; done?
; no, loop
                                                          jp
ld
                                                                        NZ. loc 0 655
                                                                        a, (bonus_timer)
066A
                             loc 0 66A:
                                                                                                                                              ; CODE XREF: 0000:06B5-1
066A 4F
                                                          ld
066B E6 OF
066D 47
066E 79
                                                          and
ld
                                                                        #0xF
066D 47
066E 79
066F 0F
066F 0F
0670 0F
0671 0F
0673 E6 0F
0673 E 09
0678 3E 03
067A 32 89 06
067B 3E 03
067A 32 89 60
067B 3E 78
067B 3E 78
067B 3E 74
0687 3E 10
0688 9
                                                                                                                                              ; B=low nibble
                                                                        b, a
                                                          1d
                                                                        a, c
                                                          rrca
                                                          rrca
                                                          rrca
and
                                                                                                                                              ; C=high nibble
; skip if more than 9s left
                                                                        NZ, display_bonus_digits
                                                          jp
ld
                                                          ld
ld
ld
ld
                                                                        a, #3
(bg_music), a
a, #0x70; 'p'
(VRAM_start+0x86), a
(VRAM_start+0xA6), a
                                                                                                                                                 purple '0'
                                                                        a, b
b, a
a, #0x10
                                                          add
                                                                                                                                                 2nd digit to 'ascii'
                                                          ld
ld
                                                                                                                                                  store
<space>
0689
0689 32 E6 74
068C 78
068D 32 C6 74
0690 C9
0691
0691
                                                                                                                                               ; CODE XREF: 0000:0675 j
                              display_bonus_digits:
                                                          ld
ld
                                                                                                                                              ; display 1st digit
; restore 2nd digit
; display 2nd digit
                                                                        (VRAM_start+0xE6), a
                                                                        (VRAM_start+0xC6), a
                                                          ld
0691
0691 3A 8C 63
0694 47
0695 E6 0F
                                                                                                                                              ; CODE XREF: 0000:062B11
                              loc_0_691:
                                                          ld
ld
                                                                        a, (bonus_timer)
                                                                        b, a
#0xF
                                                          and
0695 E6 OF
0697 C5
0698 CD 1C 05
0698 C1
069C 78
069D OF
069E OF
                                                          push
call
                                                                        add_bonus_and_update_high_score
                                                          pop
ld
                                                                        bc
a, b
                                                          rrca
rrca
                                                          rrca
06A0 OF
```

```
rrca
and
add
06A1 E6 OF
06A3 C6 OA
06A5 C3 1C O5
06A8
                                                               add bonus and update high score
                                                   qŗ
06A8
06A8
06A8 D6 01
                                                                                                                             ; CODE XREF: 0000:0632<sup>†</sup>j
                          loc_0_6A8:
                                                   sub
                                                  jr
ld
ld
                                                              NZ, loc_0_6B1
hl, #unk_0_63B8
(hl), #1
06AA 20 05
06AC 21 B8 63
06AF 36 01
06B1
06B1
06B1 27
06B2 32 8C 63
06B5 C3 6A 06
                          loc_0_6B1:
                                                                                                                             ; CODE XREF: 0000:06AA11
                                                   daa
                                                               (bonus_timer), a
                                                   ld
                                                   jр
                                                               loc 0 66A
06B8
06B8
06B8
                                                  SUBROUTINE
06B8
06B8
06B8 4F
                                                                                                                               CODE XREF: 0000:01DC<sup>†</sup>p check_and_award_bonus+2C<sup>†</sup>j
                          display_lives_and_level:
06B8
                                                                                                                               DATA XREF: ... store number of lives
                                                              c, a
8
b, #6
06B8
                                                   ld
06B8
06B9 CF
06BA 06 06
06BC 11 E0 FF
06BF 21 83 77
06C2
06C2
                                                  rst
ld
                                                                                                                                return if attract mode
                                                               de, #0xFFE0
                                                   ld
                                                                                                                             ; column delta
                                                   ld
                                                               hl, \#VRAM\_start+0x383
                                                                                                                             ; CODE XREF: display_lives_and_level+D|j
                          loc_0_6C2:
06C2 36 10
                                                              (hl), #0x10
hl, de
                                                   1d
                                                                                                                               <space>
06C4 19
                                                                                                                             ; next column
                                                   add
```

```
06C5 10 FB
06C7 3A 28
                                                                      djnz
                                                                                      loc_0_6C2
                                                                                                                                                                      ; wipe 6 icons
              3A 28 62
                                                                                            (lives left)
                                                                      ld
                                                                      sub
jp
ld
                                                                                                                                                                      ; HUH???
    06CB CA D7 06
06CE 47
06CF 21 83 77
                                                                                      Z, loc_0_6D7
                                                                                                                                                                     ; number of lives ; screen location
                                                                                      hl, #VRAM_start+0x383
                                                                      ld
    06D2
06D2
06D2 36 FF
                                                                                                                                                                      ; CODE XREF: display_lives_and_level+1D|j
                                      loc_0_6D2:
                                                                                      (hl), #0xFF
hl, de
loc_0_6D2
                                                                      ld
                                                                                                                                                                      ; mario icon
                                                                                                                                                                      ; mario icon
; next screen location
; loop for no. of lives
    06D4 19
                                                                      add
    06D4 19
06D5 10 FB
06D7
06D7
06D7 21 03 75
06DA 36 1C
06DC 21 E3 74
06DF 36 34
06EB 3A 29 62
                                                                      djnz
                                      loc_0_6D7:
                                                                                                                                                                      ; CODE XREF: display_lives_and_level+13<sup>†</sup>j
                                                                                     hl, #VRAM_start+0x103
(hl), #0x1C
hl, #VRAM_start+0xE3
(hl), #0x34; '4'
a, (level)
                                                                      1d
                                                                      ld
ld
                                                                                                                                                                      7 'L'
                                                                      ld
    06DF 36 34
06E1 3A 29 62
06E4 FE 64
06E6 38 05
06E8 3E 63
06EA 32 29 62
06ED
                                                                      ld
                                                                      cp
jr
ld
                                                                                                                                                                      ; too high?
; no, skip
; max out at 99
                                                                                      C, loc_0_6ED
                                                                      ld
                                                                                      (level), a
                                                                                                                                                                      ; adjust
                                      loc 0 6ED:
                                                                                                                                                                      ; CODE XREF: display lives and level+2E<sup>†</sup> j
    06ED 01 0A FF
                                                                      ld
                                                                                      bc. #0xFF0A
    06F0
06F0
06F0 04
                                                                                                                                                                      ; CODE XREF: display_lives_and_level+3A | j
                                      loc_0_6F0:
                                                                                      b
    06F1
                                                                      sub
    06F1 91
06F2 D2 F0 06
06F5 81
06F6 32 A3 74
06F9 78
                                                                      jp
add
ld
                                                                                      NC, loc_0_6F0
                                                                                                                                                                      ; level tens digit
                                                                                      a, c
(VRAM_start+0xA3), a
                                                                      ld
ld
                                                                                                                                                                      ; level units digit
    06FA 32
06FD C9
                                                                                      (VRAM_start+0xC3), a
              32 C3 74
                                                                      ret
                                       ; End of function display_lives_and_level
    06FD
    06FD
06FE
06FE
                                                                                                                                                                      ; DATA XREF: 0000:00D010
    06FE
                                      vector_on_ingame_sequencer:
    06FE 3A
0701 EF
0701
              3A 0A 60
                                                                      1d
                                                                                            (main_sequencer)
                                                                      rst
    0702 86 09
                                                                                                                                                                      ; Jump table
                                                                       .dw cls_and_set_screen_flip
                                                                      .dw cls_and_set_screen_IIIp
dw init_Pl_ingame_data
.dw display_player_I_and_2P_score
.dw init_P2_ingame_data
.dw display_player_II_2UP_and_2P_sco
.dw display_IUP_and_high_score
.dw wait_cls_and_check_seen_intro
.dw wester on intro segmence
    0704 AB 09
0706 D6 09
0708 FE 09
    0708
070A
070C
070E
0710
0712
0714
0716
             1B 0A
37 0A
63 0A
76 0A
                                                                       .dw vector on intro sequence
             DA 0B
00 00
91 0C
                                                                      .dw draw_how_high_can_you_get
.dw 0
.dw wait_init_and_draw_level
                                                                      .dw wait_init_and_draw_level
.dw init_mario
.dw gameplay
.dw died_in_gameplay
.dw copy_current_lvl_data_to_Pl
.dw copy_current_lvl_data_to_P2
.dw pl_game_over
.dw p2_game_over
.dw set_flip_and_current_P2
.dw set_flip_and_current_P1
.dw draw_name_registered
.dw do_initials_entry
.dw mario pauline reunion
    0718 3C
071A 7A
071C 7C
071E F2
             44
8F
A1
                   13
13
13
13
13
14
14
    0726 AA
0728 BB
    072E 15 16
0730 6B 19
0732 00 00
0734 00 00
                                                                      .dw mario_pauline_reunion
.dw loc_0_196B
.dw 0
.dw 0
    0736
              00 00
                                                                       .dw
    0736 00 00
0738 00 00
073A 00 00
073C
073C
073C
073C 21 0A
073F 3A 01
                                                                      .dw
                                      ; DATA XREF: 0000:00CCTo
    073C 21 0A 60
073F 3A 01 60
0742 A7
0743 C2 5C 07
0746 7E
0747 EF
                                                                      and
jp
ld
                                                                                                                                                                      ; any credits?
; yes, skip
                                                                                      NZ, inc_nmi_sequencer
                                                                                            (hl)
                                                                                      a, (h
0x28
                                                                                                                                                                      ; go!
    0747 EF
0747 0748 79 07
0748 63 07
074C 3C 12
074E 77 19
0750 7C 12
0752 C3 07
0754 CB 07
0756 4B 08
0758 00 00
                                                                      rst
                                                                      .dw insert_coin_screen
.dw init_attract_mode_and_draw_level
.dw init_mario
                                                                                                                                                                      ; Jump Table (attract sequencer)
                                                                       .dw attract_mode_gameplay
.dw died_in_gameplay
                                                                      .dw cls_and_next_sequence
.dw tis_and_next_sequence
.dw title_screen_flash
.dw title_screen_no_flash
.dw 0
    0756 4B 08
0758 00 00
075A 00 00
    075C
075C
075C
075C
                                                                                                                                                                          CODE XREF: 0000:0743 j
                                      inc_nmi_sequencer
                                                                                      (hl), #0
hl, #nmi_sequencer
              36 00
                                                                      ld
                                                                                                                                                                      ; reset game seguencer
    075E 21 05 60
0761 34
0762 C9
                                                                      ld
inc
                                                                                      (hl)
                                                                                                                                                                      ; inc nmi_sequencer
076.
0763
0763
0763 E7
0764 AF
0765 32 92 63
"68 32 A0 63
"3E 01
"2 27 6f
29 6
                                                                      ret
                                                                                                                                                                      ; DATA XREF: 0000:074A\u00e1o
; wait for 16-bit countdown
                                       init_attract_mode_and_draw_level:
                                                                      rst
                                                                                      0x20
                                                                      xor
                                                                      ld
ld
                                                                                      (unk_0_6392), a
(unk_0_63A0), a
                                                                                      a, #1
(level_type), a
              3E 01
32 27 62
32 29 62
32 28 62
                                                                      ld
                                                                      ld
    0770 32 29 62
0773 32 28 62
0776 C3 92 0C
                                                                      ld
ld
                                                                                       (level), a
(lives_left),
                                                                      jр
                                                                                      init and draw level
                                                                                                                                                                      ; DATA XREF: 0000:074810
                                      insert_coin_screen:
    0779 21 86 7D
                                                                                      hl, #palette_bank
(hl), #0
                                                                      1d
    077C 36 00
```

```
(hl), #0
de, #0x31B
queue_fg_vector_fn
077F 36 00
0781 11 1B
                                                       1d
                                                                                                                                      ; palette bank = 0
077F 36 00
0781 11 1B 03
0784 CD 9F 30
0787 1C
0788 CD 9F 30
078B CD 65 09
078E 21 09 60
0791 36 02
                                                      ld
call
inc
call
                                                                                                                                      ; print_message_1B "insert coin"
                                                                                                                                      ; print_message_1C "player coin"
                                                                   e
queue_fg_vector_fn
queue_hs_table_for_display
hl, #eight_bit_countdown
(hl), #2
                                                       call
ld
ld
                                                                                                                                      ; main_sequencer
; next sequence (1)
0793 23
0794 34
                                                       inc
0794 34
0795 CD 74 08
0798 CD 53 0A
                                                                    (hl)
clear_visible_area_and_sprites
                                                       call
                                                                    display_1UP
                                                       call
U798 CD 53 0A
079B 3A 0F 60
079E FE 01
07AO CC EE 09
07A3 ED 5B 22 60
07A7 21 6C 75
07AA CD AD 07
07AD
                                                                    a, (two_players)
                                                       ld
                                                      cp
call
                                                                                                                                      ; last game 2P?
; yes, display 2UP
                                                                   #1
Z, display_2UP
de, (coinage)
hl, #VRAM_start+0x16C
display_coinage
                                                       ld
                                                       call
07AD
07AD 73
07AE 23
07AF 23
                            display_coinage:
                                                                    (hl), e
                                                      ld
07AD 73
07AE 23
07AF 23
07B0 72
07B1 7A
07B2 D6 0A
07B4 C2 BC 07
07B7 77
07B8 3C
07B8 3C
07B9 32 8E 75
07BC
                                                       inc
                                                                    hl
                                                       ld
                                                                    (hl), d
                                                       ld
sub
                                                                    a, d
#0xA
                                                                   NZ, loc_0_7BC
                                                       jp
ld
                                                                    (hl), a
                                                       inc
                                                                    (VRAM_start+0x18E), a
07BC
07BC 11 01 02
07BF 21 8C 76
07C2 C9
                            loc_0_7BC:
                                                                                                                                      ; CODE XREF: 0000:07B41 j
                                                                   de, #0x201
hl, #VRAM_start+0x28C
                                                       14
                                                       ld
                                                       ret
07C3
07C3
07C3
                                                                                                                                      ; DATA XREF: 0000:0752\dagger
                            cls_and_next_sequence
07C3 CD 74 08
                                                                    clear visible_area_and_sprites
                                                       call
                                                                   hl, #main_sequencer
(hl)
07C6 21 0A 60
07C9 34
07CA C9
                                                      ld
                                                                                                                                      ; next sequence (6)
                                                       ret
07CB
07CB
07CB
                            title_screen_flash:
                                                                   a, (title_flash_tmr_1)
#0
                                                                                                                                      ; DATA XREF: 0000:0754 o
07CB 3A 8A 63
07CE FE 00
07D0 C2 2D 08
07D3 3E 60
07D5 32 8A 63
                                                      ld
                                                       cp
jp
ld
                                                                                                                                      ; time to flash?
                                                                    NZ, loc_0_82D
                                                                    a, #0x60 ; '`'
(title_flash_tmr_1), a
                                                                                                                                      ; init tmr1
                                                       ld
07D8 0E 5F
07DA
07DA
                                                       ld
                                                                                                                                      ; CODE XREF: 0000:0838/j
                            loc_0_7DA:
cp
jp
ld
ld
                                                                                                                                      ; time to flash?
; no, skip
                                                                    Z, loc_0_83B
hl, #palette_bank
(hl), #0
                                                                                                                                      ; palette 0/2
                                                      ld
rlc
jr
ld
                                                                    NC, loc_0_7EB
                                                                    (hl), #1
                                                                                                                                      ; palette 1/3
07EB
07EB
07EB 23
07EC 36 00
07EE CB 07
07F0 30 02
07F2 36 01
                            loc_0_7EB:
                                                                                                                                      ; CODE XREF: 0000:07E7†j
                                                                    (hl), #0
                                                                                                                                      ; palette 0/1
                                                       ld
                                                       rlc
                                                                    NC, loc_0_7F4 (hl), #1
                                                       jr
ld
                                                                                                                                      ; palette 2/3
07F4
07F4
07F4 32 8B 63
07F7 21 08 3D
                            loc_0_7F4:
                                                                                                                                      ; CODE XREF: 0000:07F01j
                                                                    (title_flash_tmr_2), a
                                                                    hl, #title_screen
                                                       ld
07FA
07FA
07FA
07FC
                            display_donkey_
                                                                                                                                      ; CODE XREF: 0000:0809/j
                                                                                                                                      ; girder tile
; get number of tiles to display
        3E B0
                                                       ld
        46
                                                       ld
07FC 46
07FD 23
07FE 5E
07FF 23
0800 56
0801
0801
0801 12
                                                                    hl
                                                       ld
                                                                        (hl)
                                                                    d. (hl)
                                                                                                                                      ; DE = screen address
                                                       ld
                            loc_0_801:
                                                                                                                                         CODE XREF: 0000:0803|j
                                                       ld
                                                                    (de), a
                                                                                                                                         display character next line
0801 12
0802 13
0803 10 FC
0805 23
0806 7E
0807 FE 00
                                                                   loc_0_801
hl
                                                       djnz
                                                                   a, (hl)
                                                       inc
ld
                                                                                                                                         get entry byte done?
                                                      cp
jp
ld
call
0809 C2 FA 07
080C 11 1E 03
080F CD 9F 30
                                                                   de, #0x31E
queue_fg_vector_fn
de
                                                                    NZ, display_donkey_kong_title
                                                                                                                                                loop
                                                                                                                                      ; print_message_1E
0812 13
0813 CD 9F 30
0816 21 CF 39
0819 CD 4E 00
                                                      inc
call
ld
call
                                                                                                                                      ; print_message_1F
                                                                    queue_fg_vector_fn
hl, #dk_thrash_right_spr
                                                                    copy sprites 2 11 data
081C CD 24 3F
081F 00
0820 21 08 69
                                                      call
nop
ld
                                                                    display_tm
                                                                    hl, #soft_sprite_ram+8
                                                                                                                                      ; sprite #2, y coord
0823 0E 44
0825 FF
0826 21 0B 69
0829 0E 78
                                                       1d
                                                                    c, #6
0x38
                                                                         #68
                                                       rst
ld
                                                                                                                                      ; add 68 to y coord for 10 sprites ; sprite #2, x coord
                                                                    hl, #soft_sprite_ram+0xB
c, #120
                                                       ld
                                                                    c, #3
082B FF
082C C9
082D
                                                                                                                                      ; add 120 to xs coord for 10 sprites
                                                       rst
082D
                                                                                                                                      ; CODE XREF: 0000:07D01i
082D
                            loc 0 82D:
082D 3A 8B 63
0830 4F
0831 3A 8A 63
0834 3D
0835 32 8A 63
0838 C3 DA 07
                                                      ld
ld
                                                                    a, (title_flash_tmr_2)
                                                                    a, (title_flash_tmr_1)
                                                       ld
                                                                    (title_flash_tmr_1), a loc_0_7DA
                                                       ld
                                                       jр
083B
```

083B

```
; CODE XREF: 0000:07DC<sup>†</sup>j
                         loc_0_83B:
083B 21 09 60
                                                              hl, #eight_bit_countdown
083B 21 09 60
083E 36 02
0840 23
0841 34
0842 21 8A 63
0845 36 00
0847 23
0848 36 00
                                                              (h1), #2
h1
(h1)
                                                  ld
inc
                                                                                                                           ; game_sequencer
                                                              h1, #title_flash_tmr_1 (h1), #0 h1
                                                  ld
                                                  ld
inc
ld
                                                              (hl), #0
084A C9
                                                  ret
084B
084B
084B
                          title_screen_no_flash:
                                                                                                                           ; DATA XREF: 0000:0756 o
084B E7 084C 21 0A 60 084F 36 00 0851 C9 0852 0852 0852
                                                  rst
ld
ld
                                                              0x20
hl,
                                                                                                                           ; wait for 16-bit countdown
                                                              hl, #main_sequencer (hl), #0
                                                                                                                           ; reset game sequencer
                                                  ret
                                                 SUBROUTINE
0852
0852
0852
0852 21 00 74
0852
                                                                                                                           ; CODE XREF: 0000:0986 p; 0000:196B p
                          clear_tiles_and_sprites:
                                                  ld
                                                              hl, #VRAM start
0855 OE 04
                                                              c, #4
                                                                                                                           ; 4x256 bytes to clear
                                                  ld
0857
0857
0857 06 00
                                                                                                                           ; CODE XREF: clear_tiles_and_sprites+E|j
                          loc_0_857:
                                                              b, #0
                                                                                                                           ; 256 bytes to clear ; space character
0859 3E 10
                                                  14
                                                              a, #0x10
085B
085B
085B 77
                                                                                                                           ; CODE XREF: clear_tiles_and_sprites+B|;
; display space
                         loc_0_85B:
                                                               (hl), a
                                                  ld
085B 77

085C 23

085D 10 FC

085F 0D

0860 C2 57 08

0863 21 00 69

0866 0E 02

0868
                                                  djnz
dec
                                                              loc_0_85B
                                                                                                                           ; clear 256 bytes
                                                              NZ. loc 0 857
                                                                                                                           ; do 1024 bytes
                                                  jp
ld
                                                              hl, #soft_sprite_ram
c, #2
                                                                                                                           ; 2x192 bytes to clear
                                                                                                                           ; CODE XREF: clear_tiles_and_sprites+lE|j; 192 bytes to clear
0868
                         loc 0 868:
0868 06 C0
086A AF
086B
                                                  1d
                                                              b, #192
                                                  xor
                                                                                                                           ; CODE XREF: clear_tiles_and_sprites+1B|;
; clear soft sprite ram byte
; next address
086B
086B 77
086C 23
086D 10 FC
                         loc_0_86B:
                                                  ld
inc
                                                              (hl), a
                                                  djnz
                                                              loc 0 86B
                                                                                                                           ; clear 192 bytes
086F 0D
086F 0D
0870 C2 68 08
0873 C9
0873
0873
0874
                                                  jp
                                                              NZ, loc_0_868
                                                                                                                           ; clear 384 bytes
                                                  ret
                          ; End of function clear_tiles_and_sprites
                                SUBROUTINE
0874
0874
0874
0874 21 04 74
                                                                                                                           ; CODE XREF: 0000:01C3<sup>p</sup>; 0000:0795<sup>p</sup> ...
                          clear_visible_area_and_sprites:
0874
0877 0E 20
0879
0879
                                                              hl, #VRAM_start+4
                                                  ld
                                                                                                                           ; 32 columns
                         loc 0 879:
                                                                                                                              CODE XREF: clear visible area and sprites+12+j
                                                              b, #28
a, #0x10
de, #4
0879 06 1C
                                                  ld
                                                                                                                              28 rows
                                                                                                                             <space>
bottm-to-top next column increment
087B 3E 10
087D 11 04 00
0880
0880
0880 77
0881 23
                                                                                                                              CODE XREF: clear_visible_area_and_sprites+E|j display space character next line
                          loc_0_880:
                                                  ld
                                                               (hl), a
                                                                                                                           , next line
; loop screen height
; next column
; done all columns?
; no, loop
0882 10 FC
0884 19
0885 0D
0886 C2 79 08
                                                               loc 0 880
                                                  djnz
                                                  add
dec
                                                              hl, de
                                                              NZ, loc_0_879
                                                  jp
ld
0889 21 22 75
088C 11 20 00
088F 0E 02
0891 3E 10
                                                              h1, #VRAM_start+0x122
de, #32
c, #2
                                                  ld
ld
ld
                                                              a, #0x10
                                                                                                                           ; <space>
0893
0893
0893 06 0E
                          loc_0_893:
                                                                                                                           ; CODE XREF: clear_visible_area_and_sprites+29\mid j ; 14 columns
                                                              b, #14
                                                  ld
                                                                                                                           ; CODE XREF: clear_visible_area_and_sprites+23|; display space character; next column; loop for 14 columns
0895
0895
0895 77
0896 19
                         loc_0_895:
                                                              (h1), a
h1, de
loc_0_895
                                                  ld
add
0896 19
0897 10 FC
0899 21 23 75
089C 0D
089D C2 93 08
08A0 21 00 69
08A3 06 00
08A5 3E 00
08A7
                                                  djnz
                                                  ld
dec
                                                              hl, #VRAM_start+0x123
                                                              NZ, loc_0_893
hl, #soft_sprite_ram
                                                                                                                           ; repeat at new location
                                                  jp
ld
                                                  ld
ld
                                                                                                                           ; 256 bytes to clear ; clear to 0x00
                                                                                                                           ; CODE XREF: clear_visible_area_and_sprites+35|;
; clear soft sprite ram byte
; next location
; do 256 bytes
08A7
08A7 77
08A8 23
08A9 10 FC
                         loc 0 8A7:
                                                  ld
                                                              (hl), a
                                                               loc_0_8A7
                                                  dinz
08AB 06 80
08AD
08AD
                                                              b, #128
                                                                                                                           ; 128 bytes to clear
                                                                                                                             CODE XREF: clear_visible_area_and_sprites+3B|j clear soft sprite ram byte
                         loc_0_8AD:
                                                               (hl), a
08AD 77
                                                  1d
                                                                                                                           ; next location
; clear 128 bytes
08AE 23
08AF 10 FC
08B1 C9
                                                  djnz
                                                               loc_0_8AD
                                                  ret
                          ; End of function clear_visible_area_and_sprites
08B1
08B1
08B2
08B2
                                                              a, (main_sequencer)
                                                                                                                           ; DATA XREF: 0000:00CE1o
08B2
                          vector_on_credit_sequencer:
08B2 3A 0A 60
08B5 EF
                                                                                                                           ; go!
08B5
                                                  .dw display_1P_2P_start_screen .dw process_1P_2P_start
08B6 BA 08
                                                                                                                           ; jump table
08B8 F8 08
08BA
08BA
08BA
                         display_1P_2P_start_screen:
                                                                                                                           ; DATA XREF: 0000:08B61o
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
08BA CD 74 08
                                                    call
                                                                clear_visible_area_and_sprites
08BD AF
08BE 32 07 60
08C1 11 0C 03
08C4 CD 9F 30
08C7 21 0A 60
08BD AF
                                                    xor
                                                    ld
ld
call
                                                                 (attract_mode_flag), a de, #0x30C queue_fg_vector_fn
                                                                                                                               ; clear attract mode flag
; print_message_0C
08C7 21 0A 60
08CA 34
08CB CD 65 09
08CE AF
                                                    ld
inc
                                                                 hl, #main_sequencer (hl)
                                                    call
                                                                 queue_hs_table_for_display
                                                    xor
                                                                a
hl, #palette_bank
(hl), a
08CE AF
08CF 21 86 7D
08D2 77
08D3 2C
08D4 77
                                                    1d
                                                    ld
                                                    inc
ld
                                                                 (hl), a
                                                                                                                                ; palette bank 0
08D5
08D5
08D5
                                                   SUBROUTINE
08D5
08D5

08D5

08D5

08D5

06 04

08D7 1E 09

08D9 3A 01 60

08DC FE 01

08DE CA E4 08

08E1 06 0C

08E3 1C
                          CODE XREF: 0000:08F8|p
mask for START1
"ONLY 1 PLAYER BUTTON"
                                                    ld
                                                                     (no_of_credits)
                                                    cp
jp
ld
                                                                 Z, loc_0_8E4
                                                                                                                                ; mask for START1/START2
; "1 or 2 PLAYERS"
                                                                 b, #0xC
                                                    inc
08E3 1C

08E4

08E4

08E4 3A 1A 60

08E7 E6 07

08E9 C2 F3 08

08EC 7B

08ED CD E9 05
                                                                                                                                ; CODE XREF: display_start_1P_2P_get_selectio+9^j
                           loc_0_8E4:
                                                                a, (gen_purpose_timer)
#7
                                                    ld
                                                    and
                                                    jp
ld
                                                                 NZ, loc_0_8F3
                                                                                                                                ; message 9/10
; display
                                                                 print_message_A
                                                    call
08F0 CD 16 06
08F3
08F3
08F3 3A 00 7D
                                                    call
                                                                 display_credits
                          loc_0_8F3:
                                                                                                                                ; CODE XREF: display_start_1P_2P_get_selectio+14^j
                                                    ld
                                                                 a, (in2_snd_latch)
                                                                                                                                ; read IN2
08F6 A0
08F7 C9
08F7
08F7
                                                                                                                                ; only START1/START2
                                                    and
                                                    ret
                           ; End of function display_start_1P_2P_get_selectio
08F8
08F8
08F8
08F8 CD D5 08 08F8 FE 04 08FB FE 04 08FD CA 06 09 0900 FE 08 0900 CA 19 09 0906 CD 77 09 0909 21 48 60 0900 CB AF
                                                                                                                                ; DATA XREF: 0000:08B81o
                           process 1P 2P start:
                                                    call
                                                                 display_start_1P_2P_get_selectio
                                                                 #4
Z, start_1_selected
                                                                                                                                ; START1?
; yes, skip
; START2?
                                                    ср
                                                    jр
                                                    cp
jp
ret
                                                                 Z, start_2_selected
                                                                                                                                ; yes, skip
                           start_1_selected:
                                                                                                                               ; CODE XREF: 0000:08FD1 i
                                                    call
                                                                 dec_credits_and_display
                                                    ld
                                                                 hl, #p2_level_data
b, #8
090C 06
090E AF
090F
090F
                                                    1d
                                                                                                                                ; CODE XREF: 0000:0911 j
loc_0_90F:
                                                    1d
                                                                 (hl), a
                                                    djnz
                                                                 loc_0_90F
                                                    ld
                                                                      #0
                                                    jp
                                                                 start_game
                                                                                                                               ; CODE XREF: 0000:09021j
                           start_2_selected:
                                                                dec_credits_and_display
dec_credits_and_display
de, #p2_level_data
a, (lives_per_game)
                                                    call
call
ld
                                                                a, (live (de), a
                                                    ld
                                                    ld
inc
ld
                                                                e
hl, #game_init_data
bc, #7
0927 21 5E 09
092A 01 07 00
092D ED BO
092F 11 01 01
0932 CD 9F 30
0935 21 00 01
0938
0938
0938 22 0E 60
093B CD 74 08
093E 11 40 60
0941 3A 20 60
                                                    1d
                                                    ldir
ld
call
                                                                 de, #0x101
                                                                                                                                ; zero_score_or_high_score
                                                                 queue fa vector fn
                                                    ld
                                                                 hl, #0x100
                                                                                                                               ; players=2, current_player=1
                                                                                                                                ; CODE XREF: 0000:0916<sup>†</sup>j
                          start_game:
                                                                 (current player E), hl
                                                    ld
                                                                                                                                ; players and current player
                                                    call
ld
ld
                                                                 clear_visible_area_and_sprites
de, #pl_level_data
a, (lives_per_game)
                                                                a, (live (de), a
0944 12
                                                    ld
0944 12
0945 1C
0946 21 5E 09
0949 01 07 00
094C ED BO
094E 11 00 01
0951 CD 9F 30
0954 AF
                                                    inc
ld
                                                                 e
hl, #game_init_data
                                                                                                                               ; 7 bytes
                                                    ld
ldir
                                                                 bc, #7
                                                    ld
call
                                                                 de #0x100
                                                                                                                                ; zero_score_or_high_score
                                                                 queue_fg_vector_fn
                                                    xor
0954 AF
0955 32 0A 60
0958 3E 03
095A 32 05 60
095D C9
                                                    ld
                                                                 (main_sequencer), a
                                                    ld
                                                                 a, #3
(nmi_sequencer), a
                                                    ld
                                                    ret
095D
095E 01
095E
                                                                                                                                ; DATA XREF: 0000:0927\o; 0000:0946\o
                          game_init_data: .db 1
```

095E

0965 0965 0965

095F 65 3A 0961 01 00 00 00 0965

0965 11 00 04

0965 11 00 04 0965 0968 CD 9F 30 096B 11 14 03 096E 06 06 0970 0970

0970 CD 9F 30 0973 1C

.dw level_seq_1 .db 1, 0, 0, 0 SUBROUTINE

de, #0x400 queue_fg_vector_fn de, #0x314 b, #6

queue_fg_vector_fn

queue hs table for display:

loc_0_970:

call

call

1d ld

; Start of game level init data

; display_credits_if_attract_mode

; print_message_14 (1st high score)
; 1-5 and "RANK SCORE NAME"

; CODE XREF: queue_hs_table_for_display+F|j

; CODE XREF: 0000:078B1p

; 0000:08CB1p

; next msg

```
Page: 16
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
0974 10 FA
                                                          djnz
                                                                       loc_0_970
                                                                                                                                               ; loop through messages
0976 C9
                                                          ret
                              ; End of function queue_hs_table_for_display
                                       SUBROUTINE
                              dec_credits_and_display:
                                                                                                                                                  CODE XREF: 0000:09061p
                                                                                                                                               ; 0000:0919<sup>p</sup> ...
                                                                       hl, #no_of_credits
a, #0x99 ; 'Ö'
a, (hl)
                                                          14
                                                          ld
                                                          add
                                                          daa
                                                                                                                                               ; decrement credits
                                                                        (hl), a
de, #0x400
queue_fg_vector_fn
                                                          ld
ld
                                                                                                                                               ; save
; display_credits_if_attract_mode
                                                          call
0985 C9
0985
0985
                              ret
; End of function dec_credits_and_display
0985
0986
0986
0986
0986 CD 52 08
0989 CD 1C 01
098F 38 01
0991 12
0992 21 0A 60
0995 3A 0E 60
0998 A7
0999 C2 9F 09
099C 36 01
099E C9
099F
099F
                              cls_and_set_screen_flip:
                                                                                                                                               ; DATA XREF: 0000:070210
                                                                        clear_tiles_and_sprites
                                                          call
call
                                                                       clear_tiles_and_sprit
stop_sound
de, #flipscreen
a, #1
(de), a
hl, #main_sequencer
a, (current_player_E)
                                                          ld
ld
                                                                                                                                               ; default flipscreen
                                                          ld
                                                          14
                                                          ld
                                                          and
jp
ld
                                                                                                                                               ; player 2?
; yes, skip
; ingame sequencer = 1
                                                                        a
NZ, loc_0_99F
                                                                        (hl), #1
                                                                                                                                                 CODE XREF: 0000:09991j get cabinet type upright?
099F
099F 3A 26 60
09A2 3D
                              loc_0_99F:
                                                                        a, (upright)
                                                          ld
                                                          dec
09A2 3D
09A3 CA A8 09
09A6 AF
09A7 12
09A8
                                                                        a
Z, loc_0_9A8
                                                          jp
xor
ld
                                                                                                                                                 yes, skip
disable flipscreen
to hardware
                                                                        (de), a
                                                                                                                                               ; CODE XREF: 0000:09A3<sup>†</sup>j; ingame sequencer = 3
09A8
                              loc_0_9A8:
09A8 36 03
09AA C9
                                                          ld
ret
                                                                        (hl), #3
09AB
09AB
09AB  
09AB  
09AB  
11     28     62  
09B1     01     08  
09B4     ED     80  
09B4     ED     80  
09B6     2A     2A     62  
09B9     7E  
09BA     32     27     62  
09BA     32     07     60  
09CO     A7  
09CO     31     09     60
                              init_P1_ingame_data:
                                                                                                                                               ; DATA XREF: 0000:0704\(^o\)
                                                                        hl, #p1_level_data
de, #lives_left
bc, #8
                                                          ld
                                                                                                                                               ; player_current_data
; 8 bytes to copy
                                                          ld
                                                          ld
                                                           ldir
                                                                                                                                               ; ptr current sequence table
; get level type
; store as current
                                                                        hl, (seq_data)
                                                          ld
                                                          ld
ld
ld
                                                                        a, (h1)
(level_type), a
a, (two_players)
                                                                                                                                               ; 1 player?
                                                          and
09C0 A7
09C1 21 09 60
09C4 11 0A 60
09C7 CA DO 09
09CA 36 78
09CC EB
                                                                       a
hl, #eight_bit_countdown
de, #main_sequencer
Z, loc_0_9D0
(hl), #0x78; 'x'
de, hl
(hl), #2
                                                          ld
ld
jp
ld
                                                                                                                                               ; yes, skip
; set 8-bit countdown
                                                          ex
09CC EB
09CD 36 02
09CF C9
09D0
09D0
09D0
09D0 36 01
                                                          ld
ret
                                                                                                                                               ; next sequence (2)
                                                                                                                                               ; CODE XREF: 0000:09C7\j; set 8-bit countdown
                              loc_0_9D0:
                                                                       (hl), #1
de, hl
(hl), #5
                                                          ld
09D2 EB
09D3 36 05
09D5 C9
09D6
                                                          ex
ld
                                                                                                                                               ; next sequence (5)
                                                          ret
09D6
09D6 AF
09D7 32 86 7D
09DA 32 87 7D
09DA 11 02 03
09E0 CD 9F 30
09E3 11 01 02
09E6 CD 9F 30
09E9 3E 05
09E8 32 0A 60
09EE
09D6
                              display_player_I_and_2P_score:
                                                                                                                                              ; DATA XREF: 0000:0706 o
                                                          xor
ld
                                                                       a (palette_bank), a (palette_bank+1), a de, #0x302 queue_fg_vector_fn
                                                                                                                                              ; palette bank 0
; display_message_02 "PLAYER (I)"
                                                          ld
                                                          ld
                                                          call
                                                                                                                                               ; display_score_or_high_score (P2)
                                                          ld
                                                                        de. #0x20
                                                          call
ld
                                                                        queue_fg_vector_fn
a, #5
                                                                        (main_sequencer), a
                                                          ld
09EE
09EE
09EE
                                                          SUBROUTINE
09EE
09EE
                                                                                                                                                  CODE XREF: 0000:07A01p
                              display_2UP:
09EE 3E 02
09EE
                                                                                                                                               ; 0000:0A2E|p; '2'
                                                          ld
ld
                                                                        a, #2
(VRAM_start+0xE0), a
09F0 32 E0 74
09F3 3E 25
09F5 32 CO 74
09F8 3E 20
09FA 32 AO 74
                                                                         a, #0x25 ; '%'
(VRAM_start+0xC0), a
                                                          ld
                                                                                                                                               7 '11'
                                                          ld
ld
                                                                        a, #UXZU ,
(VRAM_start+0xA0), a
                                                          ld
09FD C9
09FD
09FD
                              ret; End of function display_2UP
09FE
                                                                                                                                               ; DATA XREF: 0000:070810
                              init_P2_ingame_data:
                                                                        hl, #p2_level_data
de, #lives_left
                                                          ld
                                                                                                                                               ; player_current_data
; 8 bytes to copy
                                                          ld
                                                          ld
ldir
```

hl, (seq_data)
a, (hl)

a, (n1)
(level_type), a
a, #0x78; 'x'

(main_sequencer), a

a, #0x78; 'x'
(eight_bit_countdown), a

ld ld

ld ld

ld ld

0A1B 0A1B ; ptr current seq table
; get level type
; store as current
; init 8-bit countdown

; next sequence (4)

```
display_player_II_2UP_and_2P_sco:
                                                                                                                                                                                                                                                 ; DATA XREF: 0000:070A10
 0A1B
 0A1B AF
                                                                                                  xor
 0A1C
0A1F
0A22
                                                                                                  ld
ld
ld
                                                                                                                          (palette_bank), a (palette_bank+1), a de, #0x303
                                                                                                                                                                                                                                                ; palette bank 0
; display_message_03 "PLAYER (II)"
 0A25 CD 9F 30
0A28 11 01 02
0A2B CD 9F 30
0A2E CD EE 09
                                                                                                                         queue_fg_vector_fn
de, #0x201
queue_fg_vector_fn
display_2UP
                                                                                                  call
                                                                                                  ld
                                                                                                                                                                                                                                                ; display_score_or_high_score (P2)
                                                                                                  call
                                                                                                  call
0A2E CD EE 09
0A31 3E 05
0A33 32 0A 60
0A36 C9
0A37
0A37
0A37
0A37
0A37
11 04 03
0A3A CD 9F 30
0A3D 11 02 02
0A40 CD 9F 30
0A43 11 00 02
0A46 CD 9F 30
                                                                                                                         a, #5
(main_sequencer), a
                                                                                                  ld
                                                                                                  ld
                                                                                                  ret
                                                  display_1UP_and_high_score:
ld de, #0x304
                                                                                                                                                                                                                                                 ; DATA XREF: 0000:070C↑o
                                                                                                                                                                                                                                                 ; display_message_04 "HIGH SCORE"
                                                                                                  ld
call
                                                                                                                          queue_fg_vector_fn
de, #0x202
queue_fg_vector_fn
                                                                                                  1d
                                                                                                                                                                                                                                                 ; display_score_or_high_score (high)
                                                                                                  call
ld
0A40 CD 9F
0A43 11 00
0A46 CD 9F
0A49 11 00
0A4C CD 9F
0A4F 21 0A
                                                                                                                                                                                                                                                 ; display_score_or_high_score (P1)
                                                                                                                          de, #0x200
30
                                                                                                  call
                                                                                                                          queue_fg_vector_fn
                                                                                                  ld
call
                                                                                                                          de, #0x600
queue_fg_vector_fn
                                                                                                                                                                                                                                                 ; display_lives_and_level
                                                                                                                          hl, #main_sequencer (hl)
                                                                                                  ld
                                                                                                  inc
                                                                                                SUBROUTINE III
                                                                                                                                                                                                                                                ; CODE XREF: 0000:01F1<sup>†</sup>p; 0000:0798<sup>†</sup>p; '1'
                                                   display_1UP:
ld
                                                                                                                          (VRAM_start+0x340), a
a, #0x25; '%'
(VRAM_start+0x320), a
                                                                                                  ld
ld
ld
                                                                                                                                                                                                                                                 ; 'U'
                                                                                                                                                                                                                                                 ; 'P
                                                                                                  ld
                                                                                                  ld
                                                                                                                          (VRAM_start+0x300), a
                                                   ; End of function display_1UP
0A62

0A63

0A63

0A63

0A63

0A63

0A67

0A67

0A67

0A62

0A63

0A60

0A64

0A62

0A64

0A65

11

0A60

0A64

0A65

11

0A60

0A71

0A72

0A73

0A74

0A74

0A75

0A75
                                                                                                                                                                                                                                                 ; DATA XREF: 0000:070E o ; wait for 8-bit countdown
                                                   wait cls and check seen intro:
                                                                                                  rst
                                                                                                                          clear_visible_area_and_sprites
hl, #eight_bit_countdown
(hl), #1
                                                                                                  call
ld
                                                                                                  ld
                                                                                                                                                                                                                                                 ; game_sequencer
; inc
                                                                                                  inc
inc
ld
                                                                                                                         (hl)
de, #seen_intro
                                                                                                  ld
                                                                                                                          a, (de)
                                                                                                                                                                                                                                                 ; already seen intro?
; no, return
; skip intro sequence
                                                                                                  ret
                                                                                                                         NZ
(hl)
                                                                                                  inc
0A75 C9
0A76
0A76
0A76
                                                                                                  ret
                                                                                                                                                                                                                                                 ; DATA XREF: 0000:0710 o
                                                   vector_on_intro_sequence:
0A76 0A76 0A79 EF 0A79 0A7A 8A 0A 0A76 0A7A 8A 0A 0A7C BF 0A 0A7E E8 0A 0A80 69 30 0A82 06 0B 0A88 B3 0B 0A88 B3 0B 0A88
                                                                                                  1d
                                                                                                                                   (intro_sequencer)
                                                                                                  .dw draw_climb_screen
.dw loc_0_ABF
.dw loc_0_AE8
.dw loc_0_3069
                                                                                                                                                                                                                                                 ; Jump table
                                                                                                   .dw draw_1st_girder_deformation .dw loc_0_3069
                                                                                                   .dw draw_rest_of_deformations
.dw growl
 0A8A
0A8A

0A8A

0A8A

0A8B AF

0A8B 32 86 7D

0A8E 3C

0A8F 32 87 7D

0A92 11 0D 38
                                                                                                                                                                                                                                                 ; DATA XREF: 0000:0A7A10
                                                   draw_climb_screen:
                                                                                                  xor
                                                                                                  1d
                                                                                                                          (palette_bank), a
                                                                                                                          (palette_bank+1), a
de, #draw_data_climb
draw_level_background
a, #0x10
                                                                                                   ld
                                                                                                                                                                                                                                                 ; palette bank 2
                                                                                                  ld
0A92 11 0D 38
0A95 CD A7 0D
0A98 3E 10
0A9A 32 A3 76
0A9D 32 63 76
0AA0 3E D4
0AA2 32 AA 75
0AA5 AF
                                                                                                  call
ld
ld
                                                                                                                                                                                                                                                ; get address of ???
; <space>
                                                                                                                          a, #0x10
(VRAM_start+0x2A3), a
(VRAM_start+0x263), a
a, #0xD4; 'È'
                                                                                                  ld
                                                                                                  ld
ld
                                                                                                                          a, #0xD4 ; 'E'
(VRAM_start+0x1AA), a
                                                                                                                                                                                                                                                ; half ladder, half girder
0AA5 AF

0AA6 32 AF 62

0AA9 21 B4 38

0AAC 22 C2 63

0AAF 21 CB 38

0AB2 22 C4 63

0AB5 3E 40

0AB7 32 09 60

0ABA 21 85 63

0ABD 34
                                                                                                  xor
ld
                                                                                                                           (unk 0 62AF), a
                                                                                                  ld
ld
                                                                                                                         hl, #dk_intro_jump_up_data
(unk_0_63C2), hl
                                                                                                                         hl, #dk_intro_jump_across_data
(unk_0_63C4), hl
a, #0x40; '@'
                                                                                                  ld
ld
                                                                                                  ld
ld
ld
                                                                                                                          a, #0x40 ; '@'
(eight_bit_countdown), a
                                                                                                                          hl, #intro_sequencer
(hl)
OABD 34
OABE C9
OABF
OABF
OABF
OABF DF
OACO 21 8C 38
OAC3 CD 4E 00
OAC6 21 08 69
OAC9 0E 30
OACB FF
OACC 21 0B 69
OAC7 0E 99
OAD1 FF
OAD2 3E 1F
                                                                                                                                                                                                                                                 ; DATA XREF: 0000:0A7C\u00e1o
; wait for 8-bit countdown
                                                  loc_0_ABF:
                                                                                                  rst
ld
                                                                                                                         0x18
hl, #dk_climbing_spr
                                                                                                  call
                                                                                                                         copy_sprites_2_11_data
hl, #soft_sprite_ram+8
c, #48
                                                                                                  ld
                                                                                                                                                                                                                                                 ; sprite #2, y coord
                                                                                                  ld
                                                                                                                          0x38
                                                                                                                                                                                                                                                ; add 48 to y coord for 10 sprites ; sprite #2, x coord
                                                                                                  rst
                                                                                                                         0x38
hl, #soft_sprite_ram+0xB
c, #153
0x38
a, #0x1F
                                                                                                  ld
                                                                                                  ld
rst
                                                                                                                                                                                                                                                 ; add 153 to x coord for 10 sprites
OAD1 FF
0AD2 3E 1F
0AD2 32 8E 63
0AD7 AF
0AD8 32 0C 69
0ADB 21 8A 60
0ADE 36 01
0AE0 23
0AE1 36 03
0AE1 36 03
0AE3 21 85 63
0AE6 34
                                                                                                  ld
                                                                                                                          a, #0x1F
(unk_0_638E), a
                                                                                                  ld
                                                                                                  xor
ld
                                                                                                                            (soft_sprite_ram+<mark>0xC</mark>), <mark>a</mark>
                                                                                                                                                                                                                                               ; sprite #3, y coord
                                                                                                                          hl, #unk_0_608A
(hl), #1
                                                                                                  ld
                                                                                                  ld
inc
ld
                                                                                                                          (hl),
                                                                                                                         hl, #intro_sequencer (hl)
                                                                                                  1d
```

```
0AE7 C9
                                                                     ret
0AE8
                                   loc_0_AE8:
                                                                                                                                                                         ; DATA XREF: 0000:0A7E↑o
                                                                                      sub_0_306F
                                                                                      a, (unk_0_62AF)
#0xF
                                                                      ld
                                                                     call
ld
                                                                                      Z, sub_0_304A
                                                                                      a, (soft_sprite_ram+0xB)
#0x5D; ']'
                                                                                                                                                                        ; sprite #2, x coord
                                                                     cp
ret
ld
                                                                                      NC
                                                                                      a, #0x20 ; · · · (eight_bit_countdown), a
                                                                      ld
                                                                     ld
inc
                                                                                      hl, #0x6385
(hl)
                                                                      ld
                                                                                      (unk_0_63C0), hl
                                                                     ret
0805 C9
0806
0806
0806
0806 3A 1A 60
0809 0F
080A D8
080B 2A C2 63
080E 7E
                                   draw_1st_girder_deformation:
                                                                                                                                                                         ; DATA XREF: 0000:0A8210
                                                                      ld
                                                                                      a, (gen_purpose_timer)
                                                                     rrca
                                                                                      hl, (unk_0_63C2)
a, (hl)
                                                                      ld
                                                                                      a, (h1)
#0x7F; ''
Z, loc_0_B1E
080E 7E
080F FE 7F
0811 CA 1E 0B
0814 23
0815 22 C2 63
0818 4F
0819 21 08 69
081C FF
081D C9
081E
081E
081E
081E
                                                                      ld
                                                                      ср
                                                                      jр
                                                                      inc
                                                                                      hl
                                                                                       (unk_0_63C2), hl
                                                                      14
                                                                      ld
ld
                                                                                      c, a
h1, #0x690B
0x38
                                                                      rst
                                                                                                                                                                         ; CODE XREF: 0000:0B11^j
                                   loc 0 B1E:
0B1E 21 5C 38
0B21 CD 4E 00
0B24 11 00 69
0B27 01 08 00
                                                                     ld
call
ld
                                                                                      hl, #dk_normal_spr
copy_sprites_2_11_data
de, #soft_sprite_ram
bc, #8
                                                                      ld
0B2A ED B0 0
0B2C 21 08 69
0B2F 0E 50
0B31 FF
0B32 21 0B 69
0B35 0E FC
0B37 FF
0B38 0B38 CD 4A 30
0B38 B3A 8E 63
0B38 E 03 08
0B38 CD 4A 30
0B38 E 03 08
0B38 E 04 08
0B38 E 04 08
0B48 E 05 08
0B48 E 05 08
0B48 E 05 08
0B48 E 05 08
0B58 32 80 60
0B58 32 80 60
0B58 32 80 63
0B68 33 40
0B64 22 C0 63
0B63 34
0B64 22 C0 63
0B63 36
                                                                     ldir
ld
                                                                                      hl, #soft_sprite_ram+8
                                                                                                                                                                          ; sprite #2, y coord
                                                                      ld
                                                                                      c, #0
0x38
                                                                                            #0x50 ; 'P'
                                                                      rst
                                                                                      hl, #soft_
c, #0xFC;
0x38
                                                                      ld
ld
                                                                                              #soft_sprite_ram+0xB
                                                                                                                                                                         ; sprite #2, x coord
                                                                     rst
                                   loc_0_B38:
                                                                                                                                                                          ; CODE XREF: 0000:0B40|j
                                                                      call
                                                                                      sub_0_304A
                                                                                      a, (unk_0_638E)
#0xA
                                                                      1d
                                                                      cp
jp
ld
                                                                                      NZ, loc_0_B38
a, #3
                                                                                                                                                                          ; tmr=3
                                                                                      a, #3
(digital_snd_tmr_thump), a
de, #draw_data_bend_girders_1
draw_level_background
                                                                     ld
ld
call
ld
                                                                                       (VRAM_start+0xAA), a
(VRAM_start+0x8A), a
                                                                     ld
ld
ld
ld
                                                                                      a, #5
(unk_0_638D), a
                                                                                      (eight_bit_countdown), a
h1, #0x6385
(h1)
                                                                      ld
ld
                                                                      inc
                                                                                       (unk_0_63C0), hl
                                                                      14
0B68
0B68
0B68 3A 1A 60
0B6B 0F
                                   {\tt draw\_rest\_of\_deformations:}
                                                                                                                                                                         ; DATA XREF: 0000:0A861o
                                                                      ld
                                                                                      a, (gen_purpose_timer)
                                                                     rrca
0B6C D8
0B6D 2A C4 63
0B70 7E
0B71 FE 7F
                                                                      ret
                                                                      ld
ld
                                                                                      hl, (unk_0_63C4)
a, (hl)
#0x7F; ''
                                                                      Cρ
0B73 CA 86 0B
0B76 23
0B77 22 C4 63
0B7A 21 0B 69
                                                                      jp
inc
ld
                                                                                      Z, loc_0_B86
hl
                                                                                       (unk_0_63C4), hl
                                                                                      hl, #soft_sprite_ram+0xB
c, a
0x38
                                                                                                                                                                         ; sprite #2, x coord
                                                                      ld
087A 21 08 69
087D 4F
087E FF
087F 21 08 69
0882 0E FF
0884 FF
0885 C9
                                                                     ld
rst
ld
                                                                                      hl, #soft_sprite_ram+8
c, #0xFF
                                                                                                                                                                          ; sprite #2, y coord
                                                                      ld
                                                                                                                                                                          ; subtract 1 from y coord for 10 sprites
0B86
0B86
0886 | 0886 | 0886 | 21 CB 38 0889 22 C4 63 088C 3E 03 088E 32 82 60 0891 21 DC 38 0894 3A 8D 63 0897 3D 0899 07 0899 07 0899 07 0899 07
                                   loc_0_B86:
                                                                                                                                                                          ; CODE XREF: 0000:0B731j
                                                                                      hl, #dk_intro_jump_across_data
(unk_0_63C4), hl
                                                                     ld
ld
                                                                     ld
ld
ld
ld
                                                                                      a, #3 (digital_snd_tmr_thump), a h1, #draw_data_bend_girders_2 a, (unk_0_638D)
                                                                                                                                                                          ; tmr=3
                                                                     dec
rlca
rlca
089A 07
089B 07
089C 5F
089D 16 00
089F 19
08A0 EB
08A1 CD A7 0D
08A4 21 8D 63
08A7 35
08A8 CO
08A9 3B B0
08AB 32 09 60
08AB 32 09 60
08AE 21 85 63
08B1 34
08B2 C9
08B3
0B9A
                                                                      rlca
                                                                     rlca
ld
ld
                                                                                     e, a
d, #0
hl, de
de, hl
draw_level_background
                                                                      add
                                                                      ex
call
                                                                                      hl, #unk_0_638D
(hl)
                                                                      ld
                                                                      dec
                                                                                     (h1)
NZ
a, #0xB0; '\" (eight_bit_countdown), a
hl, #intro_sequencer
(h1)
                                                                      ret
ld
                                                                      1d
                                                                     ld
inc
ret
0BB3
```

0BB3

```
; DATA XREF: 0000:0A8810
0BB3
                                growl:
                                                                            hl, #unk_0_608A
a, (eight_bit_countdown)
#0x90; 'É'
NZ, loc_0_BC8
0BB3 21 8A 60
0BB3 21 8A 60
0BB6 3A 09 60
0BB9 FE 90
0BBB 20 0B
0BBD 36 0F
0BBC 33
0BC0 36 03
0BC2 21 19 69
0BC5 34
0BC6 18 09
0BC8
0BC8
0BC8
                                                              ld
cp
jr
ld
inc
                                                                             (hl), #0xF
                                                              ld
ld
                                                                            (h1), #3
h1, #soft_sprite_ram+0x19
(h1)
                                                                                                                                                       ; sprite #6, flipy & code
                                                              inc
                                                              jr
                                                                             loc_0_BD1
0BC8

0BC8 FE 18

0BCA 20 05

0BCC 21 19 69

0BCF 35

0BD0 00

0BD1
                                                                                                                                                        ; CODE XREF: 0000:0BBB<sup>†</sup> i
                               loc_0_BC8:
                                                                            #0x18
NZ, loc_0_BD1
hl, #soft_sprite_ram+0x19
                                                              jr
ld
                                                                                                                                                       ; sprite #6, flipy & code
                                                              dec
nop
                                                                             (h1)
                                                                                                                                                        ; CODE XREF: 0000:0BC61i
0BD1
                               loc_0_BD1:
; 0000:0BCA j; wait for 8-bit countdown
                                                              rst
                                                                             0x18
                                                                             a
(intro_sequencer), a
                                                              xor
ld
                                                              inc
                                                                             (hl)
                                                                             (hl)
                                                              inc
OBDO ST
OBDO C9
OBDA
OBDA
OBDA
                                                                                                                                                        ; DATA XREF: 0000:0712†o
                               draw_how_high_can_you_get:
OBDA
OBDA CD 1C 01
OBDD DF
OBDE CD 74 08
OBE1 16 06
OBE3 3A 00 62
OBE6 5F
OBE7 CD 9F 30
                                                             call
rst
call
                                                                             stop_sound 0x18
                                                                                                                                                        ; wait for 8-bit countdown
                                                                             clear_visible_area_and_sprites
                                                                            d, #6
a, (mario_alive_flag)
e, a
                                                                                                                                                        ; display lives and level
                                                              ld
                                                              ld
                                                              call
ld
                                                                             queue_fg_vector_fn
OBE7 CD 9F 30
OBEA 21 86 01
OBED 36 01
OBEF 23
OBF0 36 00
OBF2 21 8A 60
OBF5 36 02
OBF7 23
OBF8 36 03
OBFA 21 A7 63
OBFD 36 00
OBFF 21 DC 76
OC02 22 A8 63
OC05 3A 2E 62
OC08 FE 06
                                                                            queue_fg_vector_fr
hl, #palette_bank
(hl), #1
hl (hl), #0
hl, #unk_0_608A
(hl), #2
hl (hl), #3
                                                              ld
inc
                                                              ld
                                                              ld
inc
ld
                                                                            h1, #unk_0_63A7
(h1), #0
h1, #VRAM_start+0x2DC
                                                              ld
ld
ld
ld
OCO2 22 A8 63
OCO5 3A 2E 62
OCO8 FE 06
OCOA 38 05
                                                                             (unk 0 63A8), hl
                                                              ld
cp
jr
ld
                                                                            a, (unk_0_622E)
#6
C, loc_0_C11
0C0C 3E 05
0C0E 3E 05
0C0E 32 2E 62
0C11
0C11
                                                                             (unk_0_622E), a
                                                                                                                                                       ; CODE XREF: 0000:0C0Afj
                                loc_0_C11:
ld
ld
ld
                                                                             a, (unk_0_622F)
                                                                            a, (unk_0_622F)
b, a
a, (seq_data)
b
Z, loc_0_C1F
h1, #unk_0_622E
(h1)
                                                              cp
jr
ld
inc
                                loc_0_C1F:
                                                                                                                                                       ; CODE XREF: 0000:0C191i
                                                                            (unk_0_622F), a
a, (unk_0_622E)
b, a
                                                              ld
ld
                                                              ld
                                                                             hl, #VRAM_start+0x1BC
                                                                                                                                                       ; CODE XREF: 0000:0C7F|j
                               loc_0_C29:
0C29 0E 50
0C2B
0C2B
0C2B 71
                                                                            c, #0x50 ; 'P'
                                                              ld
                               loc_0_C2B:
                                                                                                                                                        ; CODE XREF: 0000:0C40|j
                                                                             (hl), c
0C2B 71
0C2C 0C
0C2D 2B
0C2E 71
0C2F 0C
0C30 2B
0C31 71
0C32 0C
0C33 2B
0C34 71
0C35 79
0C36 FE 67
0C38 0C
0C38 0C
0C38 0C
0C38 11 23 00
0C3F 19
0C40 C3 2B 0C
                                                              ld
                                                              inc
dec
ld
                                                                             (hl), c
                                                              inc
                                                              ld
                                                                             (hl), c
                                                              inc
                                                                             hl
                                                              ld
ld
                                                                             (hl), c
                                                                             a, c
#0x67;
                                                              cp
jp
inc
                                                                             #Ux67 ; 'g'
Z, loc_0_C43
                                                                            de, #0x23 ; '#'
hl, de
                                                              ld
                                                              add
UC3F 19
0C40 C3 2B 0C
0C43
0C43
                                                                            loc_0_C2B
                                                              jp
                                                                                                                                                       ; CODE XREF: 0000:0C38 j
                                loc 0 C43:
0C43 3A A7 63
0C46 3C
0C47 32 A7 63
                                                              ld
inc
ld
                                                                            a, (unk_0_63A7)
                                                                             (unk_0_63A7), a
0C4A
         3D
                                                              dec
0C4A 3D
0C4B CB 27
0C4D CB 27
0C4F E5
0C50 21 F0 3C
                                                              sla
sla
                                                              push
ld
                                                                            hl, #draw_data_how_high
0C53 C5
0C54 DD 2A A8 63
                                                              push
ld
                                                                             bc ix, (unk_0_63A8)
0C58 4F
0C59 06 00
                                                              ld
ld
                                                                             c, a
b, #0
                                                              add
ld
                                                                            hl, bc
a, (hl)
                                                                            a, (hl)
0x60(ix), a
0C5D DD 77 60
                                                              ld
inc
0C60 23
0C61 7E
0C62 DD 77 40
                                                                             hl
                                                                             a, (hl)
0x40(ix), a
                                                              ld
                                                              ld
0C65 23
0C66 7E
                                                                             h1
                                                                             a, (hl)
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
                                                                               0x20(ix), a
0xE0(ix), #0x8B; 'ï'
0C67 DD 77 20
0C6A DD 36 E0 8B
                                                                ld
                                                                ld
OC6A DD 36 E0
OC6E C1
OC6F DD E5
OC71 E1
OC72 11 FC FF
OC75 19
OC76 22 A8 63
OC79 E1
                                                                pop
ld
                                                                               de, #0xFFFC
hl, de
                                                                add
                                                                ld
                                                                                 (unk_0_63A8), hl
0C79 E1

0C7A 11 5F FF

0C7D 19

0C7E 05

0C7F C2 29 0C

0C82 11 07 03

0C85 CD 9F 30

0C88 21 09 60

0C88 36 A0
                                                                pop
ld
                                                                                de, #0xFF5F
                                                                add
dec
                                                                                b
NZ, loc_0_C29
                                                                jp
ld
                                                                               de, #0x307
queue_fg_vector_fn
hl, #eight_bit_countdown
(hl), #0xA0; 'á'
                                                                                                                                                            ; display_message_07
                                                                call
ld
                                                                ld
0C8D 23
0C8E 34
0C8F 34
                                                                inc
inc
inc
                                                                                (hl)
(hl)
0C8F 34
0C90 C9
0C91
0C91
0C91
0C91 DF
                                                                ret
                                                                                                                                                             ; DATA XREF: 0000:0716<sup>†</sup>o ; wait for 8-bit countdown
                                 wait init and draw level:
0C91 DF

0C92

0C92

0C92 CD 74 08

0C95 AF

0C96 32 8C 63

0C99 11 01 05

0C9C CD 9F 30

0C9C CD 9F 30
                                                                                                                                                             ; CODE XREF: 0000:0776 j
                                 init_and_draw_level:
                                                                               clear_visible_area_and_sprites
                                                                call
                                                                xor
                                                                ld
ld
call
                                                                                                                                                             ; init bonus timer
; update_bonus_timer
                                                                                 (bonus_timer), a
                                                                                de, #0x501
queue_fg_vector_fn
0C9F CD 9F 30

0C9F 21 86 7D

0CA2 36 00

0CA4 23

0CA5 36 01

0CA7 3A 27 62

0CAA 3D

0CAB CA D4 0C
                                                                               hl, #palette_bank (hl), #0
                                                                ld
                                                                ld
                                                                inc
                                                                                (hl), #1
                                                                                                                                                             ; select palette bank 2
                                                                1d
                                                                ld
dec
jp
                                                                               a, (level_type)
                                                                                                                                                             ; barrel level?
; yes, skip
; cement pie level?
; yes, skip
; elevator level?
                                                                               Z, draw_barrel_level
OCAB CA D4 0C
OCAF CA DF 0C
OCB2 3D
OCB3 CA F2 0C
OCB3 CA F2 0C
OCB6 CD 43 0D
OCB9 21 86 7D
OCB0 36 01
OCB6 3E 0B
OCC0 32 89 60
OCC3 11 8B 3C
OCC6 0CC6 CD A7 0D
OCC6 CD A7 0D
OCC6 CCC 5E 04
                                                                dec
                                                                jp
dec
                                                                                Z, draw_cement_pie_level
                                                                               a
Z, draw_elevator_level
draw_rivet_level_top_support
                                                                                                                                                              ; yes, skip
                                                                jp
call
                                                                               draw_rivet_level_top_support
hl, #palette_bank
(hl), #1
a, #0xB
(bg_music), a
de, #rivet_level_tilemap_data
                                                                ld
ld
                                                                                                                                                             ; select palette bank 3
                                                                ld
                                                                14
                                                                                                                                                              ; CODE XREF: 0000:0CDC/j
                                 draw_level_tilemap:
                                                                                                                                                              ; 0000:0CEF - i
                                                                                draw_level_background
a, (level_type)
#4
                                                                call
                                                                ld
OCCC FE 04
OCCE CC 00 0D
OCD1 C3 A0 3F
OCD4
                                                                cp
call
                                                                                                                                                              ; rivets?
                                                                                #4
Z, draw_8_rivets
init_level_data_tmrs_spr
                                                                jр
OCD4
OCD4
OCD4
OCD4
OCD7
OCD7
OCD9
OCD9
OCD9
OCD6
OCD6
OCD7
OCD7
                                 draw_barrel_level:
    ld
    ld
                                                                                                                                                             ; CODE XREF: 0000:0CAB<sup>†</sup>j
                                                                                de, #barrel_level_tilemap_data
                                                                                     #8
                                                                                a, #8 (bg_music),
                                                                ld
                                                                                draw_level_tilemap
                                                                jp
0CDF
0CDF
                                 draw_cement_pie_level:
                                                                                                                                                             ; CODE XREF: 0000:0CAF1i
OCDF
OCDF 11 5D 3B
OCE2 21 86 7D
OCE5 36 01
OCE7 23
OCE8 36 00
OCEA 3E 09
OCEC 32 89 60
                                                                               de, #cement_pie_level_tilemap_data
hl, #palette_bank
(hl), #1
                                                                ld
ld
                                                                ld
                                                                                hl
(hl), #0
a, #9
(bg_music),
                                                                                                                                                              ; select palette #1
                                                                ld
OCEC 32 89 60
OCEF C3 C6 OC
OCF2
OCF2
                                                                1d
                                                                                draw_level_tilemap
OCF2
OCF2
OCF2
CD 27 OD
OCF5 3E OA
OCF7 32 89 60
OCFA 11 E5 3B
OCFD C3 C6 OC
ODOO
                                                                                                                                                             ; CODE XREF: 0000:0CB311
                                 draw_elevator_level:
                                                                call
ld
                                                                                draw_2_elevator_cables
                                                                                a, #0xA
(bg_music), a
de, #elevator_level_tilemap_data
draw_level_tilemap
                                                                ld
                                                                ld
                                                                jр
                                                                SUBROUTINE
0D00
0D00
0D00
0D00
0D00
0D00 06 08
0D02 21 17 0D
0D05
0D05
                                                                                                                                                             ; CODE XREF: 0000:0CCE<sup>†</sup>p; 8 rivets
                                 draw_8_rivets:
                                                                               b, #8
hl, #rivet_loc_tbl
                                                                ld
                                 draw_rivet:
                                                                                                                                                              ; CODE XREF: draw_8_rivets+14|j
0D05 3E B8
0D07 0E 02
0D09 5E
0D0A 23
                                                                               a, #0xB8 ; '©'
c, #2
e, (h1)
h1
                                                                1d
                                                                                                                                                             ; top of rivet tile
; 2 tiles/rivet (vertical)
                                                                ld
ld
                                                                inc
                                                                               d, (hl)
0D0A 23
0D0B 56
0D0C 23
0D0D
                                                                ld
                                                                                                                                                              ; get VRAM location
                                                                                                                                                              ; CODE XREF: draw_8_rivets+11|j
0D0D
                                 loc 0 D0D:
0D0D 12
0D0E 3D
0D0F 13
                                                               ld
dec
inc
dec
                                                                                                                                                              ; draw rivet tile
; next rivet tile
; next VRAM location
                                                                                (de), a
                                                                                de
0D0F 13

0D10 0D

0D11 C2 0D 0D

0D14 10 EF

0D16 C9

0D16
                                                                                                                                                                 done a rivet?
                                                                               NZ, loc_0_D0D
draw_rivet
                                                                                                                                                                no, loop
loop through 8 rivets
                                                                jp
djnz
```

ret ; End of function draw_8 rivets

rivet_loc_tbl: .dw VRAM_start+0x2CA

.dw VRAM_start+0x2CF .dw VRAM_start+0x2D4 .dw VRAM_start+0x2D9 .dw VRAM_start+0x12A

0D16 0D16 0D16 0D17 CA 76

0D17 0D19 CF 76 0D1B D4 76 0D1D D9 76

0D1F 2A 75

; DATA XREF: draw_8_rivets+2\u00f10 o ; Rivets level, location of rivets

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
                                                       .dw VRAM_start+0x12F
  0D23 34 75
0D25 39 75
0D27
0D27
0D27
0D27
0D27
0D27
0D27 21 0D
  0D23
          34 75
                                                        .dw VRAM start+0x134
                                                        .dw VRAM_start+0x139
                                                      SUBROUTINE
0D27 21 0D 77
0D2A CD 30 0D
0D2D 21 0D 76
0D2D
0D2D
0D30
                                                                                                                                     ; CODE XREF: 0000:0CF2\p
                              draw_2_elevator_cables:
                                                                    hl, #VRAM_start+0x30D
                                                       ld
call
                              call draw_elevator_cable
ld hl, #VRAM_start+0x20D
; End of function draw_2_elevator_cables
  0D30
0D30
0D30
0D30
0D30
                                                     SUBROUTINE
  0D30
0D30
0D30 06 11
0D32
                                                                                                                                     ; CODE XREF: draw_2_elevator_cables+3<sup>p</sup>; cable height 17 tiles
                             draw_elevator_cable:
                                                                    b, #17
  0D32 0D32 36 FD 0D32 36 FD 0D34 23 0D35 10 FB 0D37 11 0F 00 0D3A 19 0D3D 0D3D 0D3D 0D3D 0D3D 36 FC 0D3F 23 0D40 10 FB 0D42 C9
                             loc 0 D32:
                                                                                                                                     ; CODE XREF: draw elevator cable+5-i
                                                       ld
inc
                                                                                                                                        vertical bar tile left edge
next row
                                                                     (hl), #0xFD; '2'
                                                                    hl
loc_0_D32
                                                                                                                                     ; loop cable height
                                                       djnz
                                                                    de, #02
hl, de
b, #17
                                                       1d
                                                                           #0xF
                                                                                                                                     ; next column
; cable height 17 tiles
                                                       add
ld
                                                                                                                                     ; CODE XREF: draw_elevator_cable+10|j
; vertical bar tile right edge
; next row
; loop cable height
                             loc_0_D3D:
                                                       ld
                                                                     (hl), #0xFC; '3'
                                                       inc
djnz
                                                                    loc_0_D3D
  0D42 C9
0D42
0D42
0D43
                             ret
; End of function draw_elevator_cable
  0D43
0D43
0D43
                              ; SUBROUTINE
  0D43
                                                                                                                                     ; CODE XREF: 0000:0CB61p
                             draw_rivet_level_top_support:
                             draw_rivet_level_top_support.

ld hl, #VRAM_start+0x287
call draw_support_bars
ld hl, #VRAM_start+0x147
; End of function draw_rivet_level_top_support
  0D43 21 87 76
0D46 CD 4C 0D
0D49 21 47 75
  0D49
0D49
0D4C
0D4C
0D4C
                                    SUBROUTINE
  0D4C
0D4C
0D4C
0D4C 06 04
                                                                                                                                        CODE XREF: draw_rivet_level_top_support+31p
                             draw_support_bars
                                                                    b, #4
                                                       ld
                                                                                                                                     ; 4 rows to draw
  0D4E
0D4E
0D4E 36 FD
                              loc_0_D4E:
                                                                                                                                       CODE XREF: draw_support_bars+5|j vertical bar tile left edge
                                                                     (hl), #0xFD; '2'
                                                       ld
  0D4E 36 FD

0D50 23

0D51 10 FB

0D53 11 1C 00

0D56 19

0D57 06 04

0D59

0D59

0D59 36 FC
                                                                    h1
                                                                                                                                     ; next row
                                                                     loc_0_D4E
                                                       djnz
ld
                                                                    de, #0x1C
                                                       add
                                                                                                                                     ; next column
                                                       ld
                                                                    b, #4
                                                                                                                                     ; 4 rows to draw
                                                                                                                                     ; CODE XREF: draw_support_bars+10|j
; vertical bar tile right edge
                              loc_0_D59:
                                                                     (hl), #0xFC; '3'
                                                       1d
  0D5B 23
                                                                                                                                     ; next row
  0D5C 10 FB
0D5E C9
                                                       djnz
                                                                    loc_0_D59
                                                       ret
  0D5E
                              ; End of function draw_support_bars
  OD5E
  OD5F
OD5F
  0D5F
                              init_level_data_tmrs_spr_cont:
                                                                                                                                     ; CODE XREF: 0000:3FA3-1
  OD5F CD 56 OF OD62 CD 41 24 OD65 21 09 60 OD68 36 40 OD6A 23 OD6B 34 OD6C 21 5C 38
                                                                    initialise_level_data_and_timers
sub_0_2441
hl, #eight_bit_countdown
(hl), #0x40; '@'
                                                       call
                                                       ld
                                                       1d
                                                       inc
inc
ld
                                                                    hl
(hl)
                                                                                                                                     ; main_sequencer
; next sequence (2)
                                                                    hl, #dk normal spr
  0D6F CD 4E 00
0D72 11 00 69
0D75 01 08 00
0D78 ED B0
                                                       call
ld
ld
                                                                    copy_sprites_2_11_data
de, #soft_sprite_ram
bc, #8
                                                                                                                                     ; sprites 0,1 ; 8 bytes to copy
                                                                                                                                     ; copy pauline sprite
                                                       ldir
  0D7A 3A 27 62
0D7D FE 04
0D7F 28 0A
                                                       ld
cp
                                                                    a, (level_type)
#4
                                                                                                                                     ; rivets?
; yes, skip
  0D7F 28 0A
0D81 0F
                                                                    Z, adj_pauline_kong_for_rivets
                                                       jr
                                                       rrca
  0D82 0F
0D82 0F
0D83 D8
0D84 21 0B 69
0D87 0E FC
                                                       rrca
ret
                                                                                                                                     ; level 2/3?
                                                                                                                                        hl, #soft_sprite_ram+0xB
                                                       ld
ld
                                                                         #0xFC
  0D89 FF
0D8A C9
0D8B
                                                                    0x38
                                                                                                                                     ; subtract 4 from x coord for 10 sprites
  0D8B
0D8B
0D8B 21 08 69
0D8E 0E 44
                                                                                                                                     ; CODE XREF: 0000:0D7F<sup>†</sup>j; sprite #2 (Kong), xcoord
                              adj_pauline_kong_for_rivets:
                                                                    hl, #soft_sprite_ram+8
c, #68
                                                       ld
ld
                                                                    c, #6
0x38
  ODBE 0E 44
OD90 FF
OD91 11 04 00
OD94 01 10 02
OD97 21 00 69
OD9A CD 3D 00
OD9D 01 F8 02
ODAO 21 03 69
                                                       rst
                                                                                                                                     ; add 68 to x coord for 10 sprites
                                                       ld
ld
                                                                    de, #4
bc, #0x210
                                                                          #soft_sprite_ram
                                                       ld
                                                                                                                                     ; sprite #0 (Pauline), y coord
                                                                    add_c_sprite_register_xB
bc, #0x2F8
hl, #soft_sprite_ram+3
                                                       call
ld
                                                       ld
                                                                                                                                     ; sprite #0 (Pauline), x coord
  ODAO 21 03 69
ODA3 CD 3D 00
ODA6 C9
ODA7
ODA7
ODA7
ODA7 1A
ODA7 1A
```

add_c_sprite_register_xB

(de)

#0xAA; Z de

a, (de) h, a

(segment_type), a

CODE XREF: 0000:0A951p

0000:0B4B1p ... get flag

store for later done?

get byte H=Y1

yes, return next table address

call

ld

cp ret

1d

ld

draw level background:

0DA8 32 B3 63

ODAB FE AA ODAD C8 ODAE 13

0DAF 1A 0DB0 67

```
0DB1 44
                                                     ld
                                                                  b, h
0DB2 13
0DB3 1A
0DB4 6F
0DB5 4D
                                                                                                                                     next table address
                                                                  de
                                                                  a, (de)
1, a
c, 1
                                                                                                                                     get byte
L=X1
C=X1
                                                     1d
                                                     ld
ld
                                                    push
call
pop
ld
                                                                  de
0DB6 D5
ODB7 CD F0 2F
ODBA D1
ODBB 22 AB 63
ODBE 78
                                                                  get_tilemap_addr_from_coords
de
                                                                  (segment_addr_1), hl
                                                                                                                                  ; store vram address #1
                                                     ld
ODBF E6 07
ODC1 32 B4 63
ODC4 79
                                                     and
ld
                                                                  (tile_byte_1), a
                                                     ld
0DC5 E6 07
0DC7 32 AF 63
0DCA 13
                                                      and
                                                     ld
                                                                   (start_tile_index), <mark>a</mark>
                                                     inc
ld
                                                                                                                                     next table entry
                                                                  a, (de)
h, a
ODCB 1A
                                                                                                                                      Y2
                                                                                                                                   ; H=Y2
0DCC 67
                                                     1d
0DCD 90
0DCE D2 D3 0D
                                                     sub
                                                                                                                                      calc delta Y
                                                                  NC, loc_0_DD3
                                                     jр
                                                                                                                                     no, skip
0DD1 ED 44
                                                     neg
                                                                                                                                   ; delta Y
0DD3
0DD3
0DD3 32 B1 63
                           loc_0_DD3:
                                                                                                                                   ; CODE XREF: 0000:0DCE<sup>†</sup>j
                                                                  (dY), a
                                                     ld
0DD6 13
0DD7 1A
0DD8 6F
                                                                                                                                  ; next entry
                                                     inc
                                                     ld
ld
                                                                  a, (de)
1, a
0DD9
                                                                                                                                   ; calc delta X
0DD9 91
0DDA 32 B2 63
                                                     sub
                                                     14
                                                                  (dX).
0DDA 32 B2 63
0DDD 1A
0DDE E6 07
0DE0 32 B0 63
                                                     ld
                                                                                                                                  ; X2 (again)
; TILE bits only
                                                     and
ld
                                                                   (end_tile_index), a
ODE3 32 B0 63
ODE3 D5
ODE4 CD F0 2F
ODE7 D1
ODE8 22 AD 63
ODEB 3A B3 63
ODEE FE 02
ODF0 F2 4F 0E
                                                                  ue
get_tilemap_addr_from_coords
de
                                                     push
call
                                                     pop
ld
                                                                  (segment_addr_2), hl
                                                                                                                                  ; store vram address #2
                                                                  a, (segment_type)
#2
                                                                                                                                  ; flag
; >=2?
                                                     ld
                                                                                                                                  ; >=2?
; yes, skip
                                                                  P, draw_girder_segment
                                                     jр
0DF3
ODF3
ODF3 3A B2 63
ODF6 D6 10
ODF8 47
ODF9 3A AF 63
ODFC 80
                           draw_ladder_segment:
                                                                                                                                  ; calc starting tile index adjustment
                                                                  #0x10
                                                     sub
                                                                  b, a
a, (start_tile_index)
a, b
                                                     ld
                                                     ld
add
                                                                                                                                  ; adjust
ODFC 80
ODFD 32 B2 63
OE00 3A AF 63
OE03 C6 F0
OE05 2A AB 63
OE08 77
                                                                 a, b
(dX), a
a, (start_tile_index)
a, #0xF0; '-'
h1, (segment_addr_1)
(h1), a
                                                     1d
                                                     14
                                                     add
ld
                                                                                                                                  ; girder top, no ladder above
                                                                                                                                  ; display tile
                                                     1d
0E09 2C
0E0A D6 30
0E0C 77
                                                                                                                                  ; next row
; matching ladder tile
; display it
                                                     sub
                                                                   #0x30 ; '0'
                                                     ld
                                                                  (hl), a
                                                                  a, (segment_type)
0E0D 3A B3 63
                                                     1d
0E10 FE 01
0E12 C2 19 0E
0E15 AF
                                                      ср
                                                                                                                                  ; broken ladder?
                                                                  NZ, next_tile_in_ladder_segment
                                                                                                                                  ; no, skip
; flag end-of-ladder
                                                     jр
                                                     xor
0E16 32 B2 63
0E19
0E19
0E19 3A B2 63
                                                     1d
                                                                  (dX), a
                           next_tile_in_ladder_segment:
                                                                                                                                  ; CODE XREF: 0000:0E12<sup>†</sup>j; 0000:0E27<sup>†</sup>j
0E19
                                                     ld
                                                                  a, (dX)
                                                     sub
ld
                                                                                                                                  ; finished ladder?
                                                                                                                                  ; yes, skip
; next row
; full ladder tile
; loop for ladder
0E21 DA 2A 0E
0E24 2C
0E25 36 C0
0E27 C3 19 0E
                                                                  C, loc_0_E2A
                                                     jp
inc
                                                                  (hl), #0xC0; 'L'
next_tile_in_ladder_segment
                                                     ld
                                                     jр
0E2A
0E2A
0E2A
0E2A 3A B0 63
                                                                                                                                  ; CODE XREF: 0000:0E21<sup>†</sup>j
                           loc_0_E2A:
                                                                  a, (end_tile_index)
                                                     ld
                                                                  a, #0xD0; 'ŏ'
                                                                                                                                  ; girder top, bottom of ladder ; vram address
                                                                  0E2D C6 D0
0E2F 2A AD 63
0E32 77
0E33 3A B3 63
                                                     add
                                                     ld
ld
                                                                  a, (segment_type)
                                                     ld
0E33 3A B3 63

0E36 FE 01

0E38 C2 3F 0E

0E3B 2D

0E3C 36 C0

0E3E 2C

0E3F

0E3F
                                                                                                                                  ; broken ladder?
; no, skip
; row above
; display full ladder tile
                                                     cp
jp
                                                                  NZ, loc_0_E3F
                                                                  1 (h1), #0xC0 ; 'L'
                                                     1d
                                                                                                                                   ; re-adjust row
                                                                                                                                  ; CODE XREF: 0000:0E381j
                           loc 0 E3F:
                                                                  a, (end_tile_index)
0E3F 3A B0 63
                                                     ld
0E3F 3A B0 63

0E42 FE 00

0E44 CA 4B 0E

0E47 C6 E0

0E49 2C

0E4A 77

0E4B
                                                     cp
jp
                                                                                                                                   ; 2nd tile (below) req'd?
                                                                                                                                     no, skip
bottom of girder, no ladder below
next row
                                                                  Z, loc_0_E4B
                                                                  a, #0xE0; 'Ó'
                                                     add
                                                                                                                                   ; display tile
                                                     ld
                                                                  (hl), a
                           loc_0_E4B:
                                                                                                                                   ; CODE XREF: 0000:0E44†j
0E4B
0E4B 13
                                                     inc
                                                                                                                                  ; next entry
; loop through level data
0E4C C3 A7 0D
0E4F
0E4F
                                                                  draw_level_background
0E4F
0E4F
0E4F
3A B3 63
0E52 FE 02
0E54 C2 E8 0E
0E57 3A AF 63
0E5A C6 F0
0E5C 32 B5 63
0E5F 2A AB 63
                                                                                                                                  ; CODE XREF: 0000:0DF0↑j
                           draw_girder_segment:
                                                                  a, (segment_type)
#2
                                                                                                                                  ; girder?
; no, skip
                                                     ср
                                                                  NZ, draw conveyor segment
                                                     jp
ld
                                                                  a, (start_tile_index)
a, #0xF0;'-'
(current_tile_in_segment), a
                                                                                                                                  ; girder top (no ladder above)
; initialise girder segment tile
; 'from' address
                                                     ld
                                                     ld
                                                                  hl, (segment_addr_1)
                                                                                                                                  ; CODE XREF: 0000:0E8C|j; 0000:0ECC|j ...
                           next_tile_in_girder_segment:
0E62 3A B5 63
                                                                       (current_tile_in_segment)
0E62
                                                     ld
0E65 77
0E66 23
0E67 7D
                                                     ld
                                                                   (hl), a
                                                                                                                                  ; display it
; next row
                                                                 (NI), a
hl
a, 1
#0x1F
Z, loc_0_E78
a, (current_tile_in_segment)
                                                     1d
0E68 E6 1F
0E6A CA 78 0E
0E6D 3A B5 63
                                                                                                                                  ; bottom of screen?
; yes, skip
                                                     and
                                                     jp
ld
                                                                                                                                  ; full girder?
; yes, skip
0E70 FE F0
0E72 CA 78 0E
                                                                  Z, loc_0_E78
```

```
0E75 D6 10
                                                                                                                                                                                                    ; get matching bottom piece
; display it
                                                                                sub
                                                                                                    #0x10
 0E77
                                                                                                   (hl), a
 0E78
 0E78
0E78 01 1F 00
                                                                                                                                                                                                    ; CODE XREF: 0000:0E6A<sup>†</sup>j; 0000:0E72<sup>†</sup>j
                                         loc_0_E78:
                                                                                                  bc, #0x1F
h1, bc
a, (dY)
#8
 0E78
                                                                                ld
add
                                                                                                                                                                                                    ; next column
                                                                                                                                                                                                    ; finished? (ignore [2:0])
; yes, skip
                                                                                sub
                                                                                jp
ld
ld
                                                                                                          next segment
                                                                                                  a, (dX)
                                                                                                    (dY)
                                                                                                                                                                                                    ; angled?
; no, loop
                                                                                ср
 0E8C CA 62 0E
0E8F 3A B5 63
0E92 77
0E93 23
                                                                                jp
ld
ld
                                                                                                   Z, next_tile_in_girder_segment
a, (current_tile_in_segment)
(hl), a
                                                                                                                                                                                                    ; display it ; next row
                                                                                inc
                                                                                                   hl
0E93 23

0E94 7D

0E95 E6 1F

0E97 CA A0 0E

0E9A 3A B5 63

0E9D D6 10

0E9F 77

0EA0
                                                                                                        , 1
                                                                                ld
and
                                                                                                                                                                                                    ; bottom of screen?
; yes, skip
                                                                                                   Z, loc_0_EA0
                                                                                jp
ld
                                                                                                   a, (current_tile_in_segment)
#0x10
                                                                                sub
ld
                                                                                                                                                                                                    ; get matching bottom piece
; display it
                                                                                                                                                                                                    ; CODE XREF: 0000:0E971i
 0EA0
                                         loc_0_EA0:
0EAO 01 1F 00 0EA3 09 0EA4 3A B1 63 0EA7 D6 08 0EA9 DA CF 0E 0EAC 32 B1 63 0EAF 3A B2 63 0EAF 3A B2 63
                                                                                                   bc, #0x1F
hl, bc
                                                                                ld
add
                                                                                                                                                                                                    ; next column
                                                                                                   a, (dY)
#8
                                                                                ld
                                                                                                                                                                                                    ; finished? (ignore [2:0])
; yes, skip
                                                                                sub
                                                                                jp
ld
ld
                                                                                                   C, next_segment (dY), a a, (dX)
0EAF 3A B2 63

0EB2 CB 7F

0EB4 C2 D3 0E

0EB7 3A B5 63

0EBA 3C

0EBB 32 B5 63

0EBE FE F8

0EC0 C2 C9 0E

0EC3 23

0EC4 3E F0
                                                                                bit
jp
ld
                                                                                                                                                                                                    ; sloping up? ; no, skip
                                                                                                   NZ, girder_sloping_down
a, (current_tile_in_segment)
                                                                                                                                                                                                    ; next tile
                                                                                inc
                                                                                ld
                                                                                                    (current_tile_in_segment), a
                                                                                ср
                                                                                                   #0xF8 ; '°'
NZ, loc_0_EC9
                                                                                                                                                                                                     ; time to wrap tile?
                                                                                                                                                                                                    ; no, skip
; next row
; init current tile
                                                                                jp
inc
                                                                                                   hl
 0EC4 3E F0
0EC6 32 B5 63
0EC9
                                                                                                         #0×F0 ; '-'
                                                                                1d
                                                                                                    a, #0xF0 ; '-'
(current_tile_in_segment), a
                                                                                                                                                                                                    ; CODE XREF: 0000:0ECO1j
 0EC9
                                         loc_0_EC9:
 0EC9 7D
0ECA E6 1F
0ECC C2 62 0E
0ECF
                                                                                ld
and
                                                                                                                                                                                                    ; bottom of screen?
; no, loop
                                                                                                   NZ, next_tile_in_girder_segment
                                                                                qŗ
                                                                                                                                                                                                    ; CODE XREF: 0000:0E81<sup>†</sup>j; 0000:0EA9<sup>†</sup>j ...
 0ECF
0ECF 13
                                         next_segment:
                                                                                                                                                                                                    ; next entry
; loop for all entries
 0ECF
                                                                                inc
 0ED0 C3 A7 0D
                                                                                                   draw_level_background
 0ED3
0ED3
0ED3
0ED3 3A B5 63
0ED6 3D
0ED7 32 B5 63
                                         girder_sloping_down:
                                                                                                                                                                                                    ; CODE XREF: 0000:0EB411
                                                                                ld
dec
                                                                                                   a, (current_tile_in_segment)
                                                                                                                                                                                                    ; next tile in sequence is -1
                                                                                                    (current_tile_in_segment), a
0EDA FE F0
0EDC F2 E5 0E
0EDF 2B
                                                                                cp
jp
dec
                                                                                                  P, loc_0_EE5
                                                                                                                                                                                                    ; time to wrap tile?
; no, skip
; next row
0EE0 3E F7
0EE2 32 B5 63
                                                                                                                                                                                                     ; init current tile
                                                                                                   a, #0xF7 ; ','
(current_tile_in_segment), a
                                                                                ld
 0EE2 32 B3 03
0EE5
0EE5 C3 62 0E
                                                                                                                                                                                                    ; CODE XREF: 0000:0EDC<sup>†</sup>j; loop
                                         loc_0_EE5:
                                                                                                   next_tile_in_girder_segment
                                                                                jр
 ORES
 OEE8
                                                                                                                                                                                                    ; CODE XREF: 0000:0E54†j
                                         draw_conveyor_segment:
a, (segment_type)
#3
                                                                                ld
                                                                                                                                                                                                     ; convevor?
                                                                                                    NZ, draw_other_segments
                                                                                                                                                                                                     ; no, skip
                                                                                jp
ld
                                                                                                  hl, (segment_addr_1)
a, #0xB3; '|'
(hl), a
bc, #0x20; ''
hl, bc
                                                                                                                                                                                                    ; empty tile!?!
; display it
                                                                                ld
                                                                                ld
ld
                                                                                                                                                                                                    ; next column
                                                                                add
0EFA 3A B1 63
0EFD D6 10
0EFF
                                                                                1d
                                                                                                           (dY)
                                                                                                                                                                                                    ; 2nd last tile?
                                                                                                                                                                                                    ; CODE XREF: 0000:0F11|j; yes, skip
 0EFF
                                         next_tile_on_coneyor_segment:
                                                                                                   ment:
(, end_of_conveyor_segment
(dY), a
a, #0xB1; '
(h1), a
bc, #0x20; ' '
 OEFF DA 14 OF
OFO2 32 B1 63
OFO5 3E B1
OFO7 77
                                                                                jp
ld
ld
                                                                                                                                                                                                    ; conveyor tile
; display it
                                                                                ld
 0F08 01 20 00
0F0B 09
                                                                                ld
add
 0F0C 3A B1 63
0F0F D6 08
                                                                                                   a, (dY)
#8
                                                                                ld
                                                                                sub
0F11 C3 FF 0E
0F14
0F14
                                                                                                   next_tile_on_coneyor_segment
                                                                                                                                                                                                    ; loop through conveyor
                                                                                                                                                                                                    ; CODE XREF: 0000:0EFF†j
; end of conveyor
; display it
0F14
0F14 3E B2
0F16 77
0F17 13
                                          end_of_conveyor_segment:
                                                                                                   a, #0xB2; '[
(h1), a
                                                                                ld
                                                                                ld
                                                                                inc
0F18 C3 A7 0D
0F1B
0F1B
                                                                                                   draw_level_background
                                                                                                                                                                                                     ; return
                                                                                                                                                                                                    ; CODE XREF: 0000:0EED<sup>†</sup> i
 0F1B
                                         draw other segments:
0F1B 3A B3 63 0F1E FE 07 0F20 F2 CF 0E 0F23 FE 04 0F25 CA 4C 0F 0F28 FE 05 0F20 F2 FE 0F
                                                                                                   a, (segment_type)
#7
                                                                                1d
                                                                                                                                                                                                    ; valid segment?
; no, continue
; blank?
                                                                                ср
                                                                                                   P, next segment
                                                                                qŗ
                                                                                cp
jp
cp
                                                                                                   Z, draw_blank_segment
                                                                                                                                                                                                      ; yes, skip
; rivet level girder?
                                                                                                   Z, draw_rivet_level_girder
a, #0xFE; '■'
 0F2A CA 51 0F
                                                                                                                                                                                                    ; yes, skip
; oil barrel stand (conveyor level)
 OF2D 3E FE
 OF2F
OF2F
                                                                                                                                                                                                    ; CODE XREF: 0000:0F4E|j; 0000:0F53|j
                                         loc_0_F2F:
 0F2F 32 B5 63
                                                                                                   (current_tile_in_segment), a
hl, (segment_addr_1)
                                                                                14
 0F32 2A AB 63
0F35
                                                                                                                                                                                                    ; CODE XREF: 0000:0F45-i
                                         0F35 3A B5 63
                                                                                                   a, (current_tile_in_segment)
```

```
(hl), a
bc, #0x20; ''hl, bc
a, (dY)
0F38 77
                                                            ld
                                                                                                                                                  ; display tile
0F39 01 20 00
                                                            ld
0F39 01 20 00

0F3C 09

0F3D 3A B1 63

0F40 D6 08

0F42 32 B1 63

0F45 D2 35 0F

0F48 13

0F49 C3 A7 0D
                                                            add
ld
sub
                                                                                                                                                  ; next column
                                                                                                                                                  ; done?
                                                                          (dY), a
                                                            ld
                                                            jp
inc
                                                                          NC, next_other_segment_tile de
                                                                                                                                                  ; no, loop
; next entry
                                                                          draw_level_background
                                                            jр
0F4C
0F4C
0F4C
0F4C
                                                                                                                                                  ; CODE XREF: 0000:0F25<sup>†</sup>j; blank tile
                               draw_blank_segment:
         3E EO
                                                                          a, #0xE0 ; 'Ó'
                                                            ld
0F4E C3 2F 0F
                                                            jp
                                                                          loc 0 F2F
0F51
0F51
0F51
                                                                                                                                                   ; CODE XREF: 0000:0F2A1j
                              draw rivet level girder:
0F51 3E B0
0F53 C3 2F 0F
0F56
                                                            1d
                                                                             , #0xB0 ; ' '
                                                                                                                                                   ; rivet level girder
                                                                          loc_0_F2F
                                                            jр
0F56
0F56
0F56 06 27
0F58 21 00 62
0F5B AF
                                                                                                                                                  ; CODE XREF: 0000:0D5F<sup>†</sup>p
                               initialise_level_data_and_timers:
                                                            ld
ld
                                                                          b, #39
hl, #mario_alive_flag
                                                            xor
0F5B AF
0F5C
0F5C
0F5C 77
0F5D 2C
0F5E 10 FC
0F60 0E 11
0F62 16 80
                                                                                                                                                  ; CODE XREF: 0000:0F5E|j
                               loc_0_F5C:
                                                            ld
                                                                          (hl), a
                                                           djnz
ld
ld
                                                                          loc_0_F5C
                                                                                                                                                  ; clear 39 bytes
                                                                          c, #17
d, #128
0F64 21 80 62
0F67
0F67
0F67 42
                                                            1d
                                                                          hl, #unk 0 6280
                                                                                                                                                  ; $6280-$6AFF cleared
                                                                                                                                                  ; CODE XREF: 0000:0F6D|j; 128 bytes to clear
                              loc_0_F67:
                                                                          b. d
                                                           ld
0F68
0F68
0F68
                                                                                                                                                  ; CODE XREF: 0000:0F6A|j
; clear byte
                               loc_0_F68:
                                                            ld
                                                                          (hl), a
0F68 77
0F69 23
0F6A 10 FC
0F6C 0D
0F6D 20 F8
0F6F 21 9C 3D
0F72 11 80 62
0F75 01 40 00
0F78 ED B0
0F7A 3A 29 62
0F7D 47
0F7E A7
0F7F 17
0F80 A7
                                                           djnz
dec
jr
ld
                                                                          loc_0_F68
                                                                                                                                                  ; clear 128 bytes
                                                                         C
NZ, loc_0_F67
h1, #level_init_data
de, #unk_0_6280
bc, #64
                                                                                                                                                  ; clear 17*128=2176($880) bytes
                                                            ld
ld
                                                            ldir
                                                                                                                                                  ; init 64 bytes
                                                            ld
ld
and
                                                                          a. (level)
                                                                          а
                                                                                                                                                  ; level * 2
                                                            rla
0F80 A7
0F81 17
0F82 A7
                                                            and
rla
                                                                          a
                                                                                                                                                   ; level * 4
                                                                          a
                                                            and
                                                                                                                                                  ; level * 8
; level * 9
; level * 10
; level * 10 + 40
0F83 17
0F84 80
0F85 80
0F86 C6 28
                                                            rla
                                                           add
add
                                                                          a, b
                                                                          a, b
                                                                          a, #40
                                                            add
0F88 FE 51
0F8A 38 02
0F8C 3E 50
0F8E
                                                            cp
jr
ld
                                                                                                                                                   ; max?
; no, skip
; max out at 80
                                                                          #81
                                                                          C, loc_0_F8E
a, #80
OF8E
                              loc_0_F8E:
                                                                                                                                                  ; CODE XREF: 0000:0F8A1i
0F8E 0F8E 21 B0 62 0F91 06 03 0F93 0F93 77 0F94 2C 0F95 10 FC 0F97 87 0F98 47 0F99 3E DC 0F98 90
                                                                          hl, #unk_0_62B0
b, #3
                                                                                                                                                   ; 3 timers to initialise
                                                                                                                                                   ; CODE XREF: 0000:0F951-
                              loc_0_F93:
                                                                                                                                                  ; store timer value; next timer; loop for 3 timers; level * 20 + 80
                                                            ld
                                                                          (hl), a
                                                                          loc_0_F93
                                                            djnz
                                                            add
ld
                                                                          a, a
b, a
a, #220
                                                            ld
                                                                         b
#40
0F9B 90
0F9C FE 28
0F9E 30 02
0FAO 3E 28
                                                                                                                                                  ; 220-(level*20+80)=140-level*20
                                                            sub
                                                                                                                                                  ; min?
; no, skip
; set min=40
                                                            ср
                                                                          NC, loc_0_FA2
a, #40
                                                            jr
ld
0FA0 3E 28

0FA2 0FA2 77

0FA2 77

0FA3 2C

0FA4 77

0FA5 21 09 62

0FA8 36 08

0FAA 2C

0FAB 36 08

0FAD 3A 27

0FB0 4F

0FB1 CB 57

0FB3 20 16

0FB5 21 00 6A

0FB8 3E 4F

0FB4 06 03
                               loc_0_FA2:
                                                                                                                                                   ; CODE XREF: 0000:0F9E1i
                                                                          (hl), a
                                                            ld
                                                                                                                                                   ; set timer
; next timer
                                                            inc
                                                                          (hl), a
hl, #unk_0_6209
(hl), #4
                                                           ld
ld
ld
                                                                                                                                                   ; set timer
                                                            inc
                                                                          (hl), #8
a, (level_type)
                                                            ld
ld
                                                            ld
bit
                                                                                                                                                   ; rivets level?
                                                                          NZ, loc_0_FCB
hl, #soft_sprite_ram+0x100
a, #0x4F; '0'
b, #3
                                                                                                                                                     yes, skip
sprite #64, y coord
sprite X position
                                                            jr
1d
                                                            ld
OFBA 06 03
OFBC
OFBC 77
                                                            1d
                                                                                                                                                   ; 3 sprites to draw
                                                                                                                                                  ; CODE XREF: 0000:0FC9|j; set sprite X pos
                               erase_top_of_kong_ladder:
                                                            ld
                                                                          (hl), a
OFBC 77
OFBD 2C
OFBE 36 3A
OFCO 2C
OFC1 36 OF
OFC3 2C
OFC4 36 18
OFC6 2C
OFC7 C6 10
OFC9 10 F1
OFCB
OFCB
                                                                           (hl), #0x3A ; ':'
                                                                                                                                                  ; set sprite tile (blank)
                                                                          (hl), #0xF
                                                            1d
                                                                                                                                                  ; set sprite colour
                                                                          (hl), #0x18
                                                                                                                                                  ; set sprite Y pos
                                                            inc
                                                                          a, #0x10
                                                                                                                                                  ; next X pos
; loop for 3 sprites
                                                            add
                                                                          erase_top_of_kong_ladder
                                                                                                                                                  ; CODE XREF: 0000:0FB3<sup>†</sup>j; level type; go!
0FCB
0FCB 79
0FCC EF
0FCC
0FCD 00 00
                              loc 0 FCB:
                                                            ld
                                                            rst
                                                                          0x28
                                                                                                                                                  ; Jump table
                                                             .dw RESET
0FCF D7 0F
0FD1 1F 10
0FD3 87 10
                                                            .dw init_l1_girder
.dw init_l2_cement
.dw init_l3_elevator
0FD5 31 11
0FD7
                                                             .dw init 14 rivets
```

```
0FD7
0FD7
                                   init_l1_girder:
                                                                                                                                                                            ; DATA XREF: 0000:0FCF1o
0FD7 21 DC 3D
0FDA 11 A8 69
0FDD 01 10 00
                                                                                      hl, #top_barrel_spr
de, #soft_sprite_ram+0xA8
bc, #0x10
                                                                     1d
                                                                                                                                                                            ; sprite #42, Y coord
; data for 4 sprites
; init
                                                                      ld
ld
0FE0 ED B0
0FE2 21 EC 3D
0FE5 11 07 64
0FE8 0E 1C
                                                                      ldir
                                                                      ld
ld
ld
                                                                                       hl, #fireball_s
de, #unk_0_6407
c, #0x1C
                                                                                                                                                                            ; offset of each sprite; do 5 sprites
0FEA 06 05
0FEC CD 2A 12
0FEF 21 F4 3D
0FF2 CD FA 11
                                                                      ld
                                                                                             #5
                                                                      call
ld
call
                                                                                       init_data_for_B_sprites
hl, #girders_fireball_spr
init_fireball_sprite
                                                                                       hl, #girder_oil_barrel_spr
de, #soft_sprite_ram+0xFC
bc, #4
0FF5 21 00 3E
0FF8 11 FC 69
0FFB 01 04 00
0FFE ED B0
                                                                      ld
ld
ld
                                                                                                                                                                            ; sprite #63
; 1 sprite only
; init sprite
                                                                      ldir
1000 21 0C 3E
1003 CD A6 11
1006
                                                                                       hl, #girder_hammer_locs
init_hammer_sprites
                                                                      ld
                                                                      call
1006
                                   loc_0_1006:
1006 21 1B 10
1009 11 07 67
100C 01 1C 08
                                                                                       hl, #barrel_init_data
de, #unk_0_6707
                                                                      ld
                                                                       ld
                                                                      ld
                                                                                       bc, #0x81C
init_data_for_B_sprites
                                                                                                                                                                            ; 8 sprites, offset $1C
100C 01 1C 00
100F CD 2A 12
1012 11 07 68
1015 06 02
                                                                      call
ld
ld
100F CD
1012 11
1015 06
1017 CD
101A C9
                                                                                       de, #unk_0_6807
b, #2
                                                                                                                                                                            ; 2 sprites to copy
          CD 2A 12
                                                                                       init_data_for_B_sprites
                                                                      call
101A ; 101B 00 00 02 02 barrel_init_data:.db 0, 0, 2, 2
                                                                                                                                                                            ; DATA XREF: 0000:1006 o
101F
101F
101F
101F
21 EC 3D
1022 11 07 64
1025 01 1C 05
1028 CD 2A 12
102B CD 86 11
                                    init_12_cement:
                                                                                                                                                                           ; DATA XREF: 0000:0FD1†o
                                                                                       hl, #fireball_spr
de, #unk_0_6407
bc, #0x51C
                                                                      ld
                                                                      ld
call
call
                                                                                                                                                                            ; 5 sprites, offset 0x1c
                                                                                        init_data_for_B_sprites
102B CD 86 11
102E 21 18 3E
1031 11 A7 65
1034 01 0C 06
1037 CD 2A 12
103A DD 21 A0 65
103E 21 B8 69
1041 11 10 00
1044 06 06
1046 CD D3 11
1049 21 FA 3D
104C CD FA 11
104F 21 04 3E
1052 11 FC 69
1055 01 04 00
1058 ED B0
                                                                                        init_spring_sprites
                                                                                      init_spring_sprites
hl, #cement_pie_spr
de, #unk_0_65A7
bc, #0x60c
init_data_for_B_sprites
ix, #unk_0_65A0
hl, #soft_sprite_ram+0xB8
de, #0x10
b. #6
                                                                      ld
                                                                      ld
ld
                                                                                                                                                                            ; 6 sprites, offset 0x0c
                                                                      call
ld
                                                                      ld
ld
                                                                                                                                                                            ; sprite #46-51
; offset 0x10
                                                                      ld
                                                                                       b, #6
                                                                                                                                                                            ; 6 sprites to init
                                                                                       set_B_sprites_data
hl, #cement_fireball_spr
init_fireball_sprite
                                                                      call
ld
call
ld
                                                                                      hl, #cement_oil_barrel_spr
de, #soft_sprite_ram+0xFC
bc, #4
                                                                      ld
ld
ldir
                                                                                                                                                                            ; sprite #63
                                                                                                                                                                            ; init oil barrel sprite
1058 ED B0
105A 21 1C 3E
105D 11 44 69
1060 01 08 00
1063 ED B0
                                                                                       hl, #cement_ladder_spr
de, #soft_sprite_ram+0x44
bc, #8
                                                                      ld
ld
ld
ldir
                                                                                                                                                                            ; sprite #17-18
; 8 bytes = 2 sprits
1065 21 24 3E
1068 11 E4 69
106B 01 18 00
106E ED B0
                                                                      ld
ld
ld
                                                                                       hl, #cement_conveyor_spr
de, #soft_sprite_ram+0xE4
bc, #0x18
                                                                                                                                                                            ; sprite #57-62
; 0x18 bytes = 6 sprites
                                                                      ldir
106E ED BU
1070 21 10 3E
1073 CD A6 11
1076 21 3C 3E
1079 11 0C 6A
107C 01 0C 00
                                                                      ld
                                                                                       hl, #cement_hammer_locs
                                                                      call
ld
                                                                                       init_hammer_sprites
hl, #cement_obj_spr
                                                                                                                                                                            ; hat, purse & umbrella
; sprites #67-69
; 12 bytes = 3 sprites
                                                                                       de, #soft_sprite_ram+0x10C
                                                                      1d
                                                                      14
107F ED B0
1081 3E 01
1083 32 B9 62
                                                                      ldir
ld
                                                                                       (unk_0_62B9), a
                                                                      ld
1086 C9
1087
1087
1087
1087 21 EC 3D
108A 11 07 64
108D 01 1C 05
                                                                                                                                                                           ; DATA XREF: 0000:0FD310
                                    init_13_elevator:
                                                                                       hl, #fireball_spr
de, #unk_0_6407
bc, #0x51C
                                                                      14
                                                                      ld
                                                                      ld
                                                                                                                                                                           ; 5 sprites, offset 0x1c
1080 01 1C 05
1090 CD 2A 12
1093 CD 86 11
1096 21 00 66
1099 11 10 00
109C 3E 01
109B 06 06
10A0
                                                                                       init_data_for_B_sprites
init_spring_sprites
hl, #unk_0_6600
de, #0x10
                                                                      call
call
                                                                      ld
                                                                      1d
10A0
10A0 77
10A1 79
10A1 19
10A2 10 FC
10A4 0E 02
10A6 3E 08
10A8
10A8
                                                                                                                                                                           ; CODE XREF: 0000:10A2-i
                                   loc 0 10A0:
                                                                      ld
add
                                                                                       (hl), a
                                                                                       loc_0_10A0
c, #2
                                                                      djnz
ld
                                                                                       c, #2
a, #8
                                                                      ld
                                   loc_0_10A8:
                                                                                                                                                                           ; CODE XREF: 0000:10B4|j
10A8 06 03
                                                                      1d
                                                                                      b, #3
h1, #unk_0_660D
10AA 21 0D 66
10AD
10AD
                                                                                                                                                                           ; CODE XREF: 0000:10AF | j
                                   loc 0 10AD:
10AD 77
10AE 19
10AF 10 FC
                                                                                       (hl), a
hl, de
loc_0_10AD
                                                                      1d
                                                                      add
djnz
10AF 10 FC
10B1 3E 08
10B3 0D
10B4 C2 A8 10
10B7 21 64 3E
10BA 11 03 66
10BD 01 0E 06
10C0 CD EC 11
10C3 21 60 3E
                                                                      1d
                                                                                       a, #8
                                                                      dec
jp
ld
                                                                                       NZ, loc_0_10A8
                                                                                       hl, #elevator_spr_locs
de, #unk_0_6603
                                                                      ld
                                                                      ld
call
ld
ld
                                                                                       bc, #0x60E
init_objects_locations
                                                                                                                                                                            ; 6 sprites, offset #0x0c
          21 60 3E
11 07 66
                                                                                       hl, #elevator_spr
de, #unk_0_6607
10C6
10C6 11 07 66

10C9 01 0C 06

10CC CD 2A 12

10CF DD 21 00 66

10D3 21 58 69

10D6 06 06

10D8 11 10 00
                                                                                      de, #unk_0_6607
bc, #0x60C
init_data_for_B_sprites
ix, #unk_0_6600
hl, #soft_sprite_ram+0x58
b, #6
de, #0x10
                                                                      ld
call
ld
                                                                                                                                                                            ; 6 sprites, offset 0x0c
                                                                      ld
ld
                                                                                                                                                                            ; sprites #22-27
; 6 sprites
; offset 0x10
                                                                      ld
                                                                                       set_B_sprites_data
hl, #elevator_obj_spr
10DB CD D3 11
10DE 21 48 3E
                                                                      call
ld
                                                                                                                                                                            ; hat, purse & umbrella
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
10E1 11 0C 6A
10E4 01 0C 00
                                                                                                                                                                 ; sprites 67-69
; 0x0c bytes = 3 sprites
                                                                                 de, \#soft\_sprite\_ram+0x10C
                                                                  ld
10E4 01 0C 00
10E7 ED B0
10E9 DD 21 00 64
10ED DD 36 00 01
10F1 DD 36 05 80
10F5 DD 36 05 80
10FD DD 36 05 80
10FD DD 36 05 80
10FD DD 36 25 80
1101 DD 36 25 60
1111 DD 36 25 60
                                                                  ld
                                                                                 ix, #unk_0_6400

0(ix), #1

3(ix), #0x58; 'X'

> 7(ix), #0x58; 'X'
                                                                 ldir
ld
ld
                                                                                                                                                                ; fireball character data
                                                                  ld
ld
ld
ld
ld
ld
ld
                                                                                 3(ix), #0x58; 'X'

0xE(ix), #0x58; 'X'
5(ix), #0x80; 'C'
0xF(ix), #0x80; 'C'
0x20(ix), #1
0x23(ix), #1
0x22(ix), #0xEB; 'Ü'
0x2E(ix), #0xEB; 'Ü'
0x25(ix), #0x60; '''
0x2F(ix), #0x60; '''
de, #soft_sprite_ram+0x70
h1, #elevator_cap_spr
bc, #0x10
                                                                                                                                                                ; 2nd fireball
                                                                  ld
ld
ld
                                                                                                                                                                 ; sprite #28-31
                                                                                                                                                                 ; 0x10 bytes = 4 sprites
                                                                  ld
                                                                                  bc. #0x10
1131
                                  init_14_rivets:
                                                                                                                                                                 ; DATA XREF: 0000:0FD510
1131
1131 21 F0 3D
1134 11 07 64
1137 01 1C 05
113A CD 2A 12
113D 21 14 3E
1140 CD A6 11
                                                                                 hl, #rivet_fireball_spr
                                                                                  de, #unk_0_6407
bc, #0x51C
                                                                  1d
                                                                  14
                                                                                                                                                                 ; 5 sprites, offset 0x0c
                                                                  call
ld
call
                                                                                  init_data_for_B_sprites
                                                                                  hl, #rivet_hammer_locs
init_hammer_sprites
1143 21 54 3E
1146 11 0C 6A
1149 01 0C 00
114C ED B0
                                                                  ld
ld
ld
ldir
                                                                                 hl, #rivet_obj_spr
de, #soft_sprite_ram+0x10C
bc, #0xC
                                                                                                                                                                 ; sprite #67-69
; 0x0c bytes = 3 sprites
1140 D 00 00
114E 21 82 11
1151 11 A3 64
1154 01 1E 02
1157 CD EC 11
115A 21 7E 11
115D 11 A7 64
1160 01 1C 02
1163 CD 2A 12
1166 DD 21 A0 64
1160 DD 36 00 01
116E DD 36 20 01
1172 21 50 69
1175 06 02
1177 11 20 00
1178 CD D3 11
                                                                  ld
ld
ld
                                                                                 hl, #rivet_unk_obj_locs
de, #unk_0_64A3
bc, #0x21E
                                                                                                                                                                 ; 2 sprites, offset 0x20
                                                                  call
ld
ld
ld
                                                                                  init objects locations
                                                                                 hl, #rivet_unk_sprites
de, #unk_0_64A7
                                                                                                                                                                 ; 2 sprites, offset $20
                                                                                         #0x21C
                                                                                  init_data_for_B_sprites
                                                                  call
                                                                                 init_data_for_B_sprites
ix, #unk_0_64A0
0(ix), #1
0x20(ix), #1
hl, #soft_sprite_ram+0x50
b, #2
de, #0x20; ' '
                                                                  ld
ld
                                                                  ld
                                                                  ld
ld
ld
                                                                                                                                                                 ; sprite #20-21
                                                                                                                                                                 ; 2 sprites
; offset 0x20
117A CD D3 11 call set_B_sprites
117D C9 ret
117D ;
117E 3F 0C 08 08 rivet_unk_sprites:.db 0x3F, 0xC, 8, 8
                                                                                 set_B_sprites_data
                                                                                                                                                                     DATA XREF: 0000:115A<sup>†</sup>o
11/E
1182 73 50 8D 50 rivet_unk_obj_locs:.db 0x73, 0x50, 0x8D, 0x50
1186
                                                                                                                                                                 ; transparent squares over kong's legs
; DATA XREF: 0000:114E↑o
                                                               SUBROUTINE
 1186
1186
1186
1186
                                                                                                                                                                 ; CODE XREF: 0000:102B<sup>p</sup>; 0000:1093<sup>p</sup>
                                 init_spring_sprites:
 1186 21 A2 11
                                                                                 h1, #elevator_bouncing_spr
de, #unk_0_5507
bc, #0xA0C
init_data_for_B_sprites
ix #unk 0.6500
 1186
                                                                  ld
1186

1189 11 07 65

118C 01 0C 0A

118F CD 2A 12

1192 DD 21 00 65

1196 21 80 69

1199 06 0A

119B 11 10 00
                                                                  ld
ld
                                                                  call
                                                                                 init_data_ior_B_sprites
ix, #unk_0_6500
hl, #soft_sprite_ram+0x80
b, #0xA
de, #0x10
set_B_sprites_data
                                                                  14
                                                                  ld
ld
                                                                                                                                                               ; sprites 20-29
                                                                  ld
119E CD D3 11
11A1 C9
11A1
                                  call set_B_sprites
ret
; End of function init_spring_sprites
11A1 ; 11A2 3B 00 02 02 elevator_bouncing_spr:.db 0x3B, 0, 2, 2
                                                                                                                                                                 ; DATA XREF: init_spring_sprites o
11A6
11A6
11A6
                                                      SUBROUTINE
                                 init_hammer_sprites:
                                                                                                                                                                  ; CODE XREF: 0000:10031p
 11A6
11A6 11 83 66
11A6 11A9 01 0E 02
                                                                                                                                                                 ; 0000:1073<sup>†</sup>p ...
; object XPOS
; 2 sprites, offset=14
                                                                                  de, #unk_0_6683
                                                                  1d
                                                                                  bc, #0x20E
init_objects_locations
11A9 01 0E 02

11AC CD EC 11

11AF 21 08 3E

11B2 11 87 66

11B5 01 0C 02

11B8 CD 2A 12

11BB DD 21 80 66

11BF DD 36 00 01

11C3 DD 36 10 01

11C7 21 18 6A
                                                                  call
ld
ld
                                                                                 hl, #hammer_pickup_spr
de, #unk_0_6687
                                                                                                                                                                 ; object tile
; 2 sprites, offset inc=0x0C
                                                                                 bc, #0x20C
init_data_for_B_sprites
                                                                  ld
                                                                  call
ld
ld
ld
                                                                                  ix, #unk_0_6680

O(ix), #1

Ox10(ix), #1
                                                                                 hl, #soft_sprite_ram+0x118
b, #2
de, #0x10
set_B_sprites_data
 11C7 21 18 6A
11CA 06 02
11CC 11 10 00
11CF CD D3 11
                                                                 ld
ld
ld
call
                                                                                                                                                                ; sprite #70
11D2 C9
11D2
11D2
                                 ret
; End of function init_hammer_sprites
 11D3
11D3
11D3
11D3
                                  ; SUBROUTINE
11D3
11D3 DD 7E 03
11D3
                                                                                                                                                                  ; CODE XREF: 0000:1046 p
                                  set_B_sprites_data:
                                                                                                                                                                  ; 0000:10DB1p ...
                                                                                  a, 3(ix)
(h1), a
 11D5
                                                                  ld
                                                                                                                                                                 ; set sprite X
                                                                                 1
a, 7(ix)
(h1), a
 11D7 2C
11D8 DD 7E 07
11DB 77
11DC 2C
                                                                  ld
ld
                                                                                                                                                                 ; set sprite tile
                                                                  inc
                                                                                 a, 8(1x, (hl), a
 11DD DD 7E 08
11E0 77
11E1 2C
                                                                                      8(ix)
                                                                  14
                                                                  ld
                                                                                                                                                                 ; set sprite vflip/palette
```

; set sprite Y

i a, 5(ix)

1d

11E2 DD 7E 05 11E5 77

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
  11E6 2C
  11E7 DD 19
11E9 10 E8
11EB C9
11EB
                                                           add
                                                                        ix. de
                                                                                                                                             ; next sprite data address
                               djnz set_B_sprite
ret
; End of function set_B_sprites_data
                                                                        set_B_sprites_data
  11EB
  11EC
11EC
11EC
                                                   SUBROUTINE
  11EC
11EC
11EC 7E
11EC
                               init_objects_locations:
                                                                                                                                                CODE XREF: 0000:10C0↑p
11EC 7E
11EC 11ED 12
11EE 23
11EF 1C
11F0 1C
11F1 7E
11F2 12
11F3 23
11F4 7B
11F5 81
1F6 5F
1F7 10 F3
1F9 C9
                                                                        a, (hl)
(de), a
                                                           ld
                                                                                                                                             ; copy byte 1
; next source byte
                                                           inc
                                                                        hl
                                                                        e
e
                                                                                                                                             ; skips destination byte
                                                           inc
                                                           1d
                                                                        a, (hl)
(de), a
                                                                                                                                             ; copy byte 2
; next source byte
                                                           ld
                                                           inc
                                                                        hl
                                                                        a, e
a, c
e, a
                                                           1d
                                                           add
ld
                                                                                                                                             ; add offset to destination ; loop B times
                                                           djnz
                                                                        init objects locations
                                                           ret
                               ; End of function init_objects_locations
  11FA
                                                        SUBROUTINE
  11FA
11FA
11FA
                               init_fireball_sprite:
                                                                                                                                             ; CODE XREF: 0000:0FF21p
  11FA DD 21 A0 66
11FA
11FE 11 28 6A
1201 DD 36 00 01
                                                                                                                                             ; 0000:104C1p
                                                                        ix, #unk_0_66A0
de, #soft_sprite_ram+0x128
0(ix), #1
                                                           ld
                                                                                                                                             ; sprite #74
                                                           ld
                                                                        a, (hl)
3(ix), a
(de), a
  1201 DD 30 00
1205 7E
1206 DD 77 03
1209 12
                                                           ld
ld
ld
                                                                                                                                             ; Y pos
                                                                                                                                             ; sprite Y pos
; next sprite register
; next data byte
; flipy,tile
  120A 10
                                                           inc
  120B 23
120C 7E
120D DD 77 07
                                                           inc
                                                                        h1
                                                                        a, (hl)
7(ix), a
(de), a
                                                           ld
  1210
1211
1212
                                                                                                                                             ; sprite flipy, tile
                                                           ld
                                                                                                                                                next sprite register
next data byte
                                                                             (hl)
                                                           ld
                                                                        a, (hl)
8(ix),
(de), a
                                                                                                                                             ; flipx,colour
  1213 7E
1214 DD 77 08
1217 12
1218 1C
1219 23
121A 7E
                                                           ld
                                                                                                                                                sprite flipx,colour
next sprite register
next data byte
                                                           ld
                                                           inc
inc
                                                                        hl
                                                           ld
ld
ld
                                                                        a, (hl)
5(ix), a
(de), a
  121A 7E
121B DD 77 05
                                                                                                                                             ; sprite X pos
; next data byte
  121E
  121F 23
1220 7E
                                                           inc
ld
                                                                        h1
                                                                             (hl)
  121r 23
1220 7E
1221 DD 77 09
1224 23
                                                                        a, (hl)
9(ix), a
                                                           ld
                                                                                                                                             ; next data byte
          23
7E
                                                           inc
                                                                        n:
a, (hl)
0xA(ix), a
                                                           1d
          DD 77 0A
C9
                                                           ld
ret
                               ; End of function init_fireball_sprite
  1229
                                                   SUBROUTINE
  122A
122A
122A
122A
122A E5
                                                                                                                                             ; CODE XREF: 0000:0FEC|p; 0000:100F|p ...
                               init_data_for_B_sprites:
  122A
                                                           push
                                                                        hl
  122B C5
122C 06
122E
                                                           push
ld
          06 04
                                                                                                                                             ; 4 bytes/sprite
  122E
122E 7E
122F 12
1230 23
                                                                                                                                             ; CODE XREF: init_data_for_B_sprites+8|j
                               loc_0_122E:
                                                                        a, (hl)
(de), a
                                                           ld
                                                           ld
                                                           inc
                                                                        hl
  1230 23
1231 1C
1232 10 FA
1234 C1
1235 E1
1236 7B
1237 81
1238 5F
                                                                        e
loc_0_122E
                                                           djnz
                                                                                                                                             ; copy data for 1 sprite
                                                           pop
                                                                        hl
                                                                                                                                             ; restore source
                                                           pop
ld
                                                           add
                                                                                                                                             ; next destination
                                                           ld
                                                                        e, a init_data_for_B_sprites
                                                                                                                                             ; do B sprites
  1239
           10 EF
                                                           dinz
  123B C9
123B
                               ret
; End of function init_data_for_B_sprites
  123B
123C
                               ; -
  123C
123C
123C DF
                                                                                                                                                DATA XREF: 0000:0718†o
                               init_mario:
                                                                                                                                                0000:074C†o
                                                                                                                                             ; wait for 8-bit countdown
                                                           rst
ld
                                                                        0 \times 18
  123C
123D 3A 27 62
1240 FE 03
1242 01 16 E0
                                                                        a, (level_type)
#3
                                                                                                                                             ; elevators?
                                                           cp
ld
                                                                        bc, #0xE016
                                                                                                                                             ; mario x.v coords
  1242 01 10 E0
1245 CA 4B 12
1248 01 3F F0
124B
                                                                        Z, loc_0_124B
bc, #0xF03F
                                                                                                                                                yes, skip
mario x,y coords
                                                                                                                                             ; CODE XREF: 0000:1245<sup>†</sup> i
  124B
                               loc 0 124B:
  124B DD 21 00 62
124F 21 4C 69
1252 DD 36 00 01
1256 DD 71 03
                                                                        ix, #mario_alive_flag
hl, #soft_sprite_ram+0x4C
0(ix), #1
3(ix), c
(bl) c
                                                           1d
                                                                                                                                                sprite #19, y coord
flag mario is alive
mario y coord (X)
                                                           ld
ld
                                                           ld
                                                                                                                                             ; mario y coord (X)
; sprite y = mario X
; sprite #19, flipy & code
; flipy & tile=0
; flipy & tile=0
; sprite #19, flipx & colour
; no flipx, colour=2
; no flipx, colour=2
; sprite #19, x coord
; mario x coord (Y)
; x coord
                                                           ld
inc
                                                                         (hl), c
                                                                        1
7(ix), #0x80; 'Ç'
(h1), #0x80; 'Ç'
  125B DD 36 07 80
125F 36 80
1261 2C
```

ld

inc

ld inc

ld

ld 1d 1 8(ix), #2 (h1), #2

1 5(ix), b

(hl), b 0xF(ix), #1

hl, #main_sequencer

1261 2C 1262 DD 36 08 02

36 02 2C

126C 70 126D DD 36 0F 01

1266

1268 1260 2C 1269 DD 70 05 126C 70

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
                                                                                    (hl)
                                                                                                                                                                      ; next sequence (3)
; display_lives_and_level
1274 34
1275 11 01 06
1278 CD 9F 30
127B C9
127C
127C
                                                                                    de, #0x601
queue_fg_vector_fn
                                                                    ld
                                                                    call
ret
127C
127C CD BD 1D
127C
                                                                                                                                                                      ; DATA XREF: 0000:071C\u00f30
                                  died_in_gameplay:
                                                                    call
                                                                                    sub_0_1DBD
127F 3A 9D 63
                                                                                    a, (unk_0_639D)
0x28
                                                                    1d
1282 EF
1282
1283 8B 12
                                                                    rst
                                                                                                                                                                      ; go!
                                                                    .dw delay_before_spin
                                                                                                                                                                      ; Jump Table
1285 AC 12
1287 DE 12
1289 00 00
                                                                     .dw mario_death_spin
.dw dead_mario_lying_down
                                                                    .dw 0
128B
128B
128B
128B DF
128C 21 4D 69
128F 3E F0
1291 CB 16
1293 1F
                                                                                                                                                                      ; DATA XREF: 0000:1283<sup>o</sup>; wait for 8-bit countdown
                                   delay_before_spin:
                                                                                    0x18
                                                                   rst
                                                                                    hl, #soft_sprite_ram+0x4D
a, #0xF0; '-'
(hl)
                                                                    1d
                                                                   ld
rl
                                                                                                                                                                      ; mario sprite << 1
1293 1F
1294 77
                                                                    rra
                                                                                    (h1), a
h1, #unk_0_639D
(h1)
                                                                    ld
1294 77
1295 21 9D 63
1298 34
1299 3E 0D
129B 32 9E 63
129E 3E 08
12AO 32 0P 60
12AO 3E 03
                                                                   ld
inc
                                                                                    (hl)
a, #0xD
(unk_0_639E), a
a, #8
(eight_bit_countdown), a
cub 0 30BD
                                                                    ld
                                                                    14
                                                                   ld
ld
call
                                                                                    sub_0_30BD
12A3 CD BD 30
12A6 3E 03
12A8 32 88 60
12AB C9
12AC
12AC
12AC DF
                                                                                    a, #3 (music_something), a
                                                                   ld
ld
                                                                    ret
                                                                                                                                                                      ; DATA XREF: 0000:1285\u00e1o o ; wait for 8-bit countdown
                                  mario_death_spin:
12AC DF
12AD 3E 08
12AF 32 09 60
12B2 21 9E 63
12B5 35
12B6 CA CB 12
12B9 21 4D 69
12BC 7E
12BD 1F
12BE 3E 02
12C0 1F
12C1 47
12C2 AE
12C3 77
12C4 2C
12C5 78
12C6 86 80
                                                                                    0x18
                                                                   rst
                                                                                    valo
a, #8
(eight_bit_countdown), a
h1, #unk_0_639E
(h1)
                                                                    ld
                                                                   ld
ld
                                                                    dec
                                                                                   Z, loc_0_12CB
hl, #soft_sprite_ram+0x4D
a, (hl)
                                                                    jp
ld
ld
                                                                    rra
ld
                                                                                    a, #2
                                                                    rra
ld
                                                                                    b, a (hl)
                                                                    xor
                                                                   ld
inc
ld
                                                                                    (hl), a
                                                                                    l
a, b
                                                                   and
xor
ld
12C6 E6 80
                                                                                    #0x80 ; 'Ç'
                                                                                                                                                                     ; flip mario upside down?
12C8 AE
12C9 77
12CA C9
                                                                                    (hl)
                                                                                    (hl), a
                                                                    ret
12CB
12CB
12CB
                                   loc_0_12CB:
                                                                                                                                                                      ; CODE XREF: 0000:12B6†j
12CB 21 4D 69
                                                                    ld
                                                                                    hl, #soft_sprite_ram+0x4D
12CB 21 4D 69

12CE 3E F4

12D0 CB 16

12D2 1F

12D3 77

12D4 21 9D 63

12D7 34

12D8 3E 80

12DB 32 09 60
                                                                    ld
                                                                                    a, #0xF4;
(h1)
                                                                    rl
rra
                                                                                    (h1), a
h1, #unk_0_639D
(h1)
a, #0x80; 'Ç'
                                                                    1d
                                                                   ld
inc
ld
                                                                                    (eight_bit_countdown), a
                                                                    ld
12DA 32
12DD C9
12DE
12DE
12DE

12DE DF

12DE DF DB 30

12E2 21 0A 60

12E5 3A 0E 60

12E8 A7

12E9 CA ED 12

12ED 12ED 12ED 34

12ED 34

12EE 2B
                                                                                                                                                                      ; DATA XREF: 0000:1287\daggero o; wait for 8-bit countdown
                                  dead_mario_lying_down:
                                                                   rst
call
                                                                                    sub_0_30DB
                                                                                    hl, #main_sequencer
a, (current_player_E)
a
                                                                   ld
and
                                                                                                                                                                      ; player 1?
; yes, skip
                                                                                        loc_0_12ED
                                                                    jр
                                                                                    (h1)
                                                                    inc
                                  loc_0_12ED:
                                                                                                                                                                      ; CODE XREF: 0000:12E9<sup>†</sup>j
                                                                                    (hl)
                                                                    inc
12ED 34
12EE 2B
12EF 36 01
12F1 C9
12F2
12F2
                                                                    dec
                                                                    ld
                                                                                    (hl), #1
12F2
12F2 CD 1C 01
12F5 AF
12F6 32 2C 62
12F9 21 28 62
12FC 35
12FD 7E
                                   copy_current_lvl_data_call
                                                                               to P1:
                                                                                                                                                                      ; DATA XREF: 0000:071E10
                                                                                    stop_sound
                                                                    xor
                                                                                   hl, #lives_left
                                                                    ld
                                                                   ld
dec
ld
                                                                                    a, (hl)
12FE 11 40 60
1301 01 08 00
1304 ED B0
                                                                   ld
ld
ldir
                                                                                    de, #p1_level_data
bc, #8
1304 ED B0
1306 A7
1307
1307 2 34 13
130A 3E 01
130C 21 B2 60
130F CD CA 13
1312 21 D4 76
1315 3A 0F 60
1318 A7
1319 28 07
1318 11 02 03
131E CD 9F 30
1321 2B
                                                                   and
                                                                                    а
                                   loc_0_1307:
                                                                                    NZ, loc_0_1334
                                                                    jp
ld
                                                                                   NA, 10C_0_1331

a, #1

h1, #p1_score

sub_0_13CA

h1, #VRAM_start+0x2D4

a, (two_players)
```

ld call ld ld

ĭd

loc 0 1322:

1322 CD 26 18

call dec

call

a Z, loc_0_1322

clear_14x5_HL

queue_fg_vector_fn

; display_message_02

; CODE XREF: 0000:1319[†] †

de, #0x302

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
                                                                                                                                                                ; display_message_00
                                                                  ld
                                                                                 de, #0x300
1328 CD 9F 30
132B 21 09 60
132E 36 C0
1330 23
1331 36 10
                                                                 call
ld
ld
                                                                                 queue_fg_vector_fn
hl, #eight_bit_countdown
(hl), #0xC0; 'L'
hl
1330 23
1331 36 10
1333 C9
1334
1334
1334
1334 0E 08
1336 3A 0F 60
1339 A7
                                                                                 (hl), #0x10
                                                                  1d
                                  loc 0 1334:
                                                                                                                                                                ; CODE XREF: 0000:1307† j
                                                                  ld
                                                                                 c, #8
a, (two_players)
                                                                  ld
                                                                  and
 133A CA 3F 13
133D 0E 17
133F
133F
                                                                                 Z, loc_0_133F
                                                                  jp
ld
                                                                                                                                                                ; CODE XREF: 0000:133A1j
133F 79 1340 32 0A 60 1343 C9 1344 1344 1344 CD 1C 01 1347 AF 1348 32 2C 62 134E 35 134F 7E 1350 11 48 60 1353 01 08 00 1356 ED 80 1358 A7
                                  loc 0 133F:
                                                                  1d
                                                                                 (main_sequencer), a
                                                                  ret
                                  copy_current_lvl_data_to_P2:
                                                                                                                                                                ; DATA XREF: 0000:0720 o
                                                                 call
                                                                                 stop sound
                                                                  xor
                                                                                 (seen_intro), a
hl, #lives_left
(hl)
                                                                 ld
ld
                                                                  dec
                                                                                 a, (hl)
de, #p2_level_data
bc, #8
                                                                  14
                                                                 ld
ld
ldir
1356 ED BU
1358 A7
1359 C2 7F 13
135C 3E 03
135E 21 B5 60
1361 CD CA 13
1364 11 03 03
1367 CD 9F 30
                                                                                a

NZ, loc_0_137F

a, #3

hl, #p2_score

sub_0_13CA

de, #0x303

queue_fg_vector_fn

de, #0x300

queue_fg_vector_fn

hl, #VRAM_start+0x2D3

clear_14x5_HL

hl, #eight_bit_countdown

(hl), #0xc0; 'L'

hl

(hl), #0x11
                                                                 and
jp
ld
                                                                  ld
                                                                 call
ld
call
ld
                                                                                                                                                                ; display_message_03
1367 CD 9F 30
136A 11 00 03
136D CD 9F 30
1370 21 D3 76
1373 CD 26 18
1376 21 09 60
1379 36 C0
1378 23
137C 36 11
137E C9
137F
137F
                                                                                                                                                                ; display_message_00
                                                                 call
ld
call
ld
                                                                 ld
inc
ld
 137F
137F 0E 17
1381 3A 40 60
1384 A7
                                                                                                                                                                ; CODE XREF: 0000:1359<sup>†</sup>j; set to switch players?
                                  loc_0_137F:
                                                                  ld
ld
                                                                                 c, #0x17
a, (p1_level_data)
1384 A7
1385 C2 8A 13
1388 OE 08
138A
138A
                                                                  and
                                                                                 NZ, loc_0_138A
c, #8
                                                                 jp
ld
                                                                                                                                                                ; CODE XREF: 0000:1385<sup>†</sup>j
                                  loc_0_138A:
 138A 79
138B 32 0A 60
138E C9
138F
                                                                  1d
                                                                                  (main_sequencer), a
 138F
 138F
138F DF
                                                                                                                                                                ; DATA XREF: 0000:0722\daggero o ; wait for 8-bit countdown
                                  p1_game_over:
1390 DF 17
1390 DE 17
1392 3A 48 60
1395
1395 34
                                                                                 c, #0x17
a, (p2_level_data)
                                                                  1d
                                                                  ld
                                  loc_0_1395:
                                                                                                                                                                ; CODE XREF: 0000:13A7|j
                                                                  inc
                                                                                 (hl)
1395 34
1396 A7
1397 C2 9C 13
139A 0E 14
139C
139C
139C 79
139D 32 0A 60
                                                                  and
                                                                                 NZ, loc_0_139C
                                                                  jp
ld
                                                                                 c, #0x14
                                   loc_0_139C:
                                                                                                                                                                ; CODE XREF: 0000:1397<sup>†</sup>j
                                                                  ld
                                                                                 a, c
(main_sequencer), a
ld
                                                                  ret
                                                                                                                                                                ; DATA XREF: 0000:0724\u00e9o
; wait for 8-bit countdown
                                  p2_game_over:
                                                                                 0x18
c, #0x17
a, (p1_level_data)
loc_0_1395
                                                                  rst
                                                                  ld
ld
                                                                  jp
                                                                                                                                                                ; DATA XREF: 0000:0726 o
                                  set_flip_and_current_P2:
                                                                                 a, (upright, (flipscreen), a
                                                                  ld
                                                                 ld
                                                                  xor
ld
                                                                                   (main_sequencer), <mark>a</mark>
                                                                                                                                                                ; reset ingame sequencer
                                                                 ld
ld
                                                                                 hl, #0x101
(current_player_D), hl
                                                                                                                                                                ; both current player flags to P2
                                                                  ret
 13BB
13BB
13BB AF
                                   set_flip_and_current_P1:
                                                                                                                                                                ; DATA XREF: 0000:0728 o
13BB AF
13BC 32 0D 60
13BF 32 0E 60
13C2 32 0A 60
13C5 3C
13C6 32 82 7D
13C9 C9
13CA
13CA
13CA
                                                                 xor
ld
```

(current player D), a

(current_player_E), (main_sequencer), a

(flipscreen), a

de, #unk_0_61C6 (de), a

SUBROUTINE

de

bc, #3

ld ld inc

ld ret

ld ld

rst

ld

sub_0_13CA:

13CA 11 C6 61 13CA 13CD 12 13CE CF

13CF 13 13D0 01 03 00

; player 1

; CODE ARE: ; 0000:1361†p

; player 1 ; player 1 ; reset ingame sequencer ; default flipscreen

CODE XREF: 0000:130F1p

; return if attract mode

```
13D3 ED B0
                                                                                                                                                      ldir
13D5 06 03
13D7 21 B1 61
13DA
13DA
                                                                                                                                                                                        b, #3
h1, #unk_0_61B1
                                                                                                                                                      ld
                                                                                                                                                     ld
                                                                             loc_0_13DA:
                                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: sub_0_13CA+1F|j
                                                                                                                                                      dec
ld
rrca
 13DA 1B
                                                                                                                                                                                         de
a, (de)
13DB 1A
13DC 0F
13DD 0F
                                                                                                                                                      rrca
13DD OF
13DE OF
13DF OF
13ED E6 OF
13E2 77
13E3 23
13E4 1A
13E5 E6 OF
13E7 77
                                                                                                                                                      rrca
rrca
and
ld
                                                                                                                                                                                           (hl), a
                                                                                                                                                      inc
ld
and
ld
                                                                                                                                                                                         hl
a, (de)
#0xF
(hl), a
13E7 77
13E8 23
13E9 10 EF
13EB 06 0E
                                                                                                                                                      djnz
ld
                                                                                                                                                                                           loc_0_13DA
                                                                                                                                                                                          b, #0xE
13EB 06 0E
13ED
13ED
13ED 36 10
13EF 23
13F0 10 FB
13F2 36 3F
13F4 06 05
13F6 21 A5 61
13F9 11 C7 61
13FC
13FC
13FC
13FC
13FC 1A
                                                                            loc_0_13ED:
                                                                                                                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_13CA+26|j
                                                                                                                                                      ld
                                                                                                                                                                                            (hl), #0x10
                                                                                                                                                      inc
                                                                                                                                                                                          loc_0_13ED
                                                                                                                                                      dinz
                                                                                                                                                      ld
ld
                                                                                                                                                                                         (hl), #0x3F; '?'
b, #5
hl, #hs_tbl_5th+0x1D
                                                                                                                                                      ld
                                                                                                                                                      14
                                                                                                                                                                                          de, #unk_0_61C7
                                                                             loc_0_13FC:
                                                                                                                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_13CA+51|j
                                                                                                                                                      ld
                                                                                                                                                                                                       (de)
13FD 96
13FE 23
13FF 13
1400 1A
1401 9E
1402 23
1403 13
1404 1A
1405 9E
1406 D8
1407 C5
1408 06 19
1407 C5
1408 06 19
140A
140A
140A
140A
140A
140A
140A
140B
141B 10
141D
141D
141B 10
141B 1
                                                                                                                                                      sub
inc
inc
ld
                                                                                                                                                                                          (hl)
                                                                                                                                                                                          de
                                                                                                                                                                                         a, (de)
a, (hl)
hl
de
                                                                                                                                                      sbc
inc
inc
                                                                                                                                                                                         a, (de)
a, (hl)
                                                                                                                                                      1d
                                                                                                                                                      sbc
ret
                                                                                                                                                      push
ld
                                                                                                                                                                                          b, #0x19
                                                                            loc_0_140A:
                                                                                                                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_13CA+47|j
                                                                                                                                                      ld
                                                                                                                                                                                         c, (hl)
                                                                                                                                                      ld
ld
ld
                                                                                                                                                                                          a, (de)
(hl), a
                                                                                                                                                                                          a, c
(de), a
                                                                                                                                                      ld
                                                                                                                                                     dec
dec
djnz
                                                                                                                                                                                          loc_0_140A
                                                                                                                                                                                         bc, #0xFFF5
hl, bc
de, hl
hl, bc
                                                                                                                                                      1d
                                                                                                                                                      add
                                                                                                                                                      ex
add
                                                                                                                                                                                         de, hl
bc
loc_0_13FC
                                                                                                                                                      ex
                                                                                                                                                      pop
djnz
                                                                                                                                                      ret
                                                                              ; End of function sub_0_13CA
                                                                             draw_name_registered:
                                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: 0000:072A10
                                                                                                                                                     call
rst
                                                                                                                                                                                          display_credits
                                                                                                                                                                                                                                                                                                                                                                              ; wait for 8-bit countdown
                                                                                                                                                      call
ld
ld
                                                                                                                                                                                          clear_visible_area_and_sprites
                                                                                                                                                                                           a, #0
(current_player_E), a
                                                                                                                                                                                                                                                                                                                                                                              ; player 1
; player 1
                                                                                                                                                      ld
                                                                                                                                                                                            (current_player_D), a
                                                                                                                                                                                         hl, #high_score_tbl_ram+0x1C
de, #0x22; '"'
b, #5
                                                                                                                                                      ld
                                                                                                                                                      ld
ld
ld
                                                                                                                                                                                          a. #1
                                                                              loc_0_1437:
                                                                                                                                                                                                                                                                                                                                                                               ; CODE XREF: 0000:143C|j
                                                                                                                                                                                          (hl)
                                                                                                                                                      ср
                                                                                                                                                                                         Z, loc_0_1459
hl, de
loc_0_1437
                                                                                                                                                      jp
add
djnz
ld
                                                                                                                                                                                         hl, #high_score_tbl_ram+0x1C
b, #5
                                                                                                                                                      ld
                                                                                                                                                                                                                                                                                                                                                                             ; CODE XREF: 0000:144A-j
                                                                             loc 0 1445:
                                                                                                                                                      ср
                                                                                                                                                                                           (h1)
                                                                                                                                                     jp
add
djnz
                                                                                                                                                                                          Z, loc_0_144F
hl, de
loc_0_1445
144C C3 75 14
144F
144F
144F
                                                                                                                                                      jp
                                                                                                                                                                                          loc_0_1475
144F | 144F 32 01 1 1451 32 0E 60 1454 32 0D 60 1457 3E 00 1459 | 1459 21 26 60 145C B6 21 0A 60 1468 34 1469 11 0D 03 146C 06 0C | 1444F 1450 1460 06 0C | 1466 0A 60 0
                                                                              loc 0 144F:
                                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: 0000:14461i
                                                                                                                                                                                          a, #1
(current_player_E), a
(current_player_D), a
                                                                                                                                                      1d
                                                                                                                                                      ld
ld
                                                                                                                                                                                                                                                                                                                                                                              ; player 2
; player 2
                                                                                                                                                      ld
                                                                                                                                                                                          a, #0
                                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: 0000:1438 j
                                                                               loc_0_1459:
                                                                                                                                                                                         hl, #upright (hl)
                                                                                                                                                      ld
                                                                                                                                                      or
                                                                                                                                                      ld
ld
                                                                                                                                                                                           (flipscreen), a
                                                                                                                                                                                           a, #0
(eight_bit_countdown), a
                                                                                                                                                      ld
                                                                                                                                                                                         hl, #main_sequencer
(hl)
de, #0x30D
b, #0xC
                                                                                                                                                      ld
 1468 34
1469 11 0D
146C 06 0C
                                                                                                                                                      inc
                                                                                                                                                                                                                                                                                                                                                                             ; display_message_0D
                                                                                                                                                      ld
 146E
146E
146E CD 9F 30
                                                                             loc_0_146E:
                                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: 0000:1472|j
                                                                                                                                                      call
                                                                                                                                                                                          queue_fg_vector_fn
1471 13
1472 10 FA
                                                                                                                                                                                          loc_0_146E
                                                                                                                                                      djnz
```

```
1474 C9
                                                                      ret
 1475
1475
1475
1475
1475 3E 01
1477 32 82 7D
147A 32 05 60
147D 32 07 60
1480 3E 00
1482 32 0A 60
                                    loc_0_1475:
                                                                                                                                                                             ; CODE XREF: 0000:144C↑j
                                                                                       a, #1
(flipscreen), a
(nmi_sequencer), a
(attract_mode_flag), a
                                                                       ld
                                                                       ld
ld
                                                                                                                                                                             ; set attract mode flag
                                                                       ld
1480 3E 00
1482 32 0A 60
1485 C9
1486
1486
                                                                                        (main_sequencer), a
                                                                       ld
1486
1486 CD 16 06
1489 21 09 60
148C 7E
                                    do_initials_entry:
call
ld
                                                                                                                                                                             ; DATA XREF: 0000:072C10
                                                                                       display_credits
hl, #eight_bit_countdown
a, (hl)
148C 7E
148D A7
148E C2 DC 14
1491 32 86 7D
1494 32 87 7D
1497 36 01
1499 21 30 60
149C 36 0A
149F 36 0A
149E 23
149F 36 00
14AA 23
14AA 23
14AA 23
14AA 23
14AA 23
14AA 36 3E
                                                                       ld
                                                                       and
jp
ld
                                                                                        NZ, loc_0_14DC
                                                                                        (palette_bank), a
                                                                                       (palette_bank+1), a
(h1), #1
h1, #unk_0_6030
(h1), #0xA
                                                                       ld
                                                                       ld
ld
ld
                                                                       inc
ld
inc
ld
inc
                                                                                       hl
                                                                                       (h1), #0
h1
(h1), #0x10
                                                                       ld
                                                                                         (hl), #0x1E
                                                                       inc
ld
                                                                                        hl (hl), #0x3E; '>'
14AA 36 3E
14AA 23
14AB 36 00
14AD 21 E8 75
14BO 22 36 60
14B3 21 1C 61
14B6 3A 0E 60
14B9 07
                                                                       inc
ld
ld
                                                                                       hl (hl), #0 hl, #VRAM_start+0x1E8 (unk_0_6036), hl hl, #high_score_tbl_ram+0x1C a, (current_player_E)
                                                                       ld
                                                                       ld
ld
                                                                                                                                                                             ; 0/1
; 0/2
; 1/3
                                                                       rlca
1489 07
148A 3C
148B 4F
14BC 11 22 00
14BF 06 04
14C1
14C1
14C1 7E
                                                                       inc
                                                                                       c, a
de, #0x22; '"'
b, #4
                                                                       1d
                                                                       ld
                                    loc_0_14C1:
                                                                                                                                                                            ; CODE XREF: 0000:14C7|j
                                                                       ld
                                                                                        a, (hl)
14C1 7E
14C2 B9
14C3 CA C9 14
14C6 19
14C7 10 F8
14C9
                                                                       cp
jp
add
                                                                                       c
Z, loc_0_14C9
                                                                                       hl, de
loc_0_14C1
                                                                       djnz
14C9
14C9 22 38 60
14CC 11 F3 FF
                                                                                                                                                                             ; CODE XREF: 0000:14C3<sup>†</sup>j; point to high score
                                    loc_0_14C9:
                                                                                         (unk_0_6038), hl
                                                                       ld
                                                                                        de, #0xFFF3
hl, de
14CF 19
14D0 22 3A 60
14D3 06 00
14D5 3A 35 60
                                                                       add
ld
ld
ld
                                                                                         (unk_0_603A), hl
                                                                                       b, #0
a, (unk_0_6035)
14D5 3A 35 60

14D8 4F

14D9 CD FA 15

14DC

14DC

14DC 21 34 60

14DF 35

14E0 C2 FC 14

14E3 36 3E

14E5 2B

14E6 35

14E7 CA C6 15

14EA 7E
                                                                       ld
                                                                       call
                                                                                        sub_0_15FA
                                                                                                                                                                             ; high score initial select sprite
                                                                                                                                                                            ; CODE XREF: 0000:148E†j
                                    loc 0 14DC:
                                                                                       hl, #unk_0_6034
(hl)
NZ, loc_0_14FC
(hl), #0x3E; '>
                                                                       ld
                                                                       dec
jp
ld
dec
dec
                                                                                       (hl)
Z, loc_0_15C6
a, (hl)
                                                                       jp
ld
14EA 7E
14EB 06 FF
14ED
14ED
                                                                                       b, #0xFF
                                                                       ld
                                                                                                                                                                            ; CODE XREF: 0000:14F0|j
                                    loc_0_14ED:
                                                                                      b
#0xA
NC, loc_0_14ED
a, #0xA
... start+0x:
14ED 04
14EE D6 0A
14FB D6 0A
14FG D2 ED 14
14F3 C6 0A
14F5 32 52 75
14F8 78
14F9 32 72 75
14FC
14FC 21 30 60
14FF 46
1500 36 0A
1502 3A 10 60
1505 CB 7F
1507 C2 46 15
150A E6 03
150C C2 14 15
150F 3C
1510 77
1511 C3 8A 15
 14ED 04
                                                                       sub
jp
add
                                                                                        (VRAM_start+0x152), a
                                                                       ld
                                                                       ld
ld
                                                                                       a, b
(VRAM_start+0x172), a
                                    loc_0_14FC:
                                                                                                                                                                             ; CODE XREF: 0000:14E0 j
                                                                                       h1, #unk_0_6030
b, (h1)
(h1), #0xA
a, (controller_in)
7, a
                                                                       ld
                                                                       ld
                                                                                                                                                                             ; edge-detected inputs
; button pressed?
; yes, skip
; left/right only
                                                                       ld
bit
                                                                                        NZ, jump_pressed
                                                                       jp
and
                                                                       jp
inc
                                                                                        NZ, left_right_pressed
                                                                                                                                                                              ; yes, skip
                                                                                        a (hl),
1511 C3 8A 15
1514
1514
1514
                                                                       jp
                                                                                        loc_0_158A
                                                                                                                                                                             ; CODE XREF: 0000:150Cfj
                                     left_right_pressed:
1514 05
1515 CA 1D 15
1518 78
1519 77
                                                                                       b
Z, loc_0_151D
a, b
(h1), a
                                                                       jp
ld
                                                                                       (hl), a
loc_0_158A
                                                                       ld
1513 77
151A C3 8A 15
151D
151D
151D
151D CB 4F
151F C2 39 15
1522 3A 35 60
1525 3C
                                                                                                                                                                             ; CODE XREF: 0000:1515<sup>†</sup> i
                                    loc_0_151D:
                                                                       bit
                                                                                        1, a
NZ, loc_0_1539
                                                                       jp
ld
                                                                                       a, (unk_0_6035)
a
                                                                       inc
1525 3C
1526 FE 1E
1528 C2 2D 15
152B 3E 00
                                                                       ср
                                                                                       #0x1E
NZ, loc_0_152D
                                                                       jp
1d
                                                                                        a, #0
 152D
152D
152D
152D 32 35 60
                                    loc_0_152D:
                                                                                                                                                                             ; CODE XREF: 0000:1528<sup>†</sup>j; 0000:153E<sup>†</sup>j ...
                                                                                        (unk_0_6035), a
                                                                       1d
1530 4F
```

```
15A0
15A0 FD 2A 38 60
15A4 FD 6E 04
15A7 FD 66 05
15AA E5
                                                                         iy, (unk_0_6038)
1, 4(iy)
h, 5(iy)
h1
                                                           ld
ld
                                                           push
15AB DD E1
15AD CD 7C 05
15B0 3E 10
15B2 32 32 60
                                                           pop
call
                                                                          ix
                                                                          display_score_HL
                                                                         a, #0x10
(unk_0_6032), a
locret_0_15F9
                                                           ld
15B2 32 32 00
15B5 C3 F9 15
15B8
15B8
                                                           jp
                                                                                                                                                 ; CODE XREF: 0000:1595<sup>†</sup> i
                              loc 0 15B8:
15B8
15B8 AF
15B9 32 31 60
15BC ED 5B 38 60
                                                           ld
ld
                                                                           (unk_0_6031)
                                                                          de, (unk_0_6038)
                                                                                                                                                 ; point to high score
15C0 13
15C1 13
15C2 13
                                                           inc
                                                                          de
15C0 13
15C1 13
15C2 13
15C3 C3 A0 15
15C6
                                                                          loc_0_15A0
                                                           jр
15C6 | loc_0_15C6:
15C6 ED 5B 38 60
                                                                                                                                                 ; CODE XREF: 0000:14E7†j; 0000:1550†j
                                                                                                                                                  ; point to high score
                                                           1d
                                                                         de, (unk_0_6038)
                                                           xor
ld
ld
                                                                          (de),
15CB 12
15CC 21 09 60
                                                                         hl, #eight_bit_countdown (hl), #0x80; 'Ç'
15CC 21 09 60

15CF 36 80

15D1 23

15D2 35

15D3 06 0C

15D5 21 E8 75

15D8 FD 2A 3A 60

15DC 11 E0 FF

15DF
                                                           ld
inc
dec
                                                                         hl
(hl)
                                                                         h, #0xC
hl, #VRAM_start+0x1E8
iy, (unk_0_603A)
de, #0xFFE0
                                                           ld
                                                           ld
                                                           ld
                              loc_0_15DF:
                                                                                                                                                ; CODE XREF: 0000:15E6|j
                                                                         a, (hl)
0(iy), a
15DF 7E
15E0 FD 77 00
15E3 FD 23
15E5 19
15E6 10 F7
                                                           ld
inc
                                                                         iy
hl, de
loc_0_15DF
                                                           add
djnz
ld
15E8 06 05
15EA 11 14 03
                                                                         b, #5
de, #0x314
                                                           ld
                                                                                                                                                ; display_message_14
15ED
15ED
                              loc_0_15ED:
                                                                                                                                                 ; CODE XREF: 0000:15F1|j
15ED CD 9F 30
                                                           call
                                                                          queue_fg_vector_fn de
15F0 13
```

```
15F1 10 FA
                                                                      djnz
                                                                                       loc_0_15ED
15F3 11 1A 03
15F6 CD 9F 30
15F9
15F9
15F9
                                                                      ld
                                                                                                                                                                           ; display message 1A
                                                                      call
                                                                                       queue_fg_vector_fn
                                                                                                                                                                           ; CODE XREF: 0000:158E<sup>†</sup>j; 0000:15B5<sup>†</sup>j
                                    locret_0_15F9:
15F9 C9
1589
                                                                     ret
15FA
15FA
                                    ; SUBROUTINE
15FA
15FA
15FA
15FA D5
                                                                                                                                                                           ; CODE XREF: 0000:14D9<sup>†</sup>p; 0000:1533<sup>†</sup>p
                                    sub_0_15FA:
15FA D5
15FA 15FB E5
15FC CB 21
15FE 21 OF 36
1601 09
                                                                     push
push
sla
ld
                                                                                       hl, #letter_coords
15FE 21
1601 09
1602 EB
1603 21
1606 1A
1607 13
1608 77
1609 23
                                                                      add
ex
ld
                                                                                      hl, bc
de, hl
                                                                                      hl, \#soft\_sprite\_ram+0x74
                                                                                                                                                                          ; sprite for initials entry
                                                                      ld
                                                                                       a, (de)
                                                                                      de (hl), a
                                                                      ld
                                                                                                                                                                           ; X coordinate
1609 23
160A 36 72
160C 23
160D 36 0C
160F 23
1610 1A
1611 77
1612 E1
1613 D1
                                                                      inc
ld
                                                                                       (hl), #0x72; 'r'
                                                                                                                                                                           ; tile
                                                                      inc
                                                                                      hl
(hl), #0xC
                                                                                                                                                                           ; palette
                                                                                      hl
a, (de)
(hl), a
                                                                      inc
                                                                      14
                                                                      ld
                                                                                                                                                                           ; Y coordinate
                                                                      pop
1613 D1

1614 C9

1614

1615

1615

1615

1615 CD BD 30

1618 3A 27 62

1618 0F

161C D2 2F 16

161F 3A 88 63

1622 EF

1622 EF

1623 54 16

1625 70 16

1627 8A 16

1629 32 17

1628 57 17

1628 57 17

1629 8E 17

1621 8E 17
                                                                                       de
                                                                      pop
                                    ret; End of function sub_0_15FA
                                    mario_pauline_reunion:
                                                                                                                                                                           ; DATA XREF: 0000:072E↑o
                                                                                      sub_0_30BD
                                                                      call
ld
                                                                                      a, (level_type)
                                                                      rrca
jp
ld
                                                                                      NC, loc_0_162F
a, (unk_0_6388)
0x28
                                                                      rst
                                                                                                                                                                            ; go!
                                                                      .dw loc_0_1654
                                                                                                                                                                            ; Jump table
                                                                      .dw loc_0_1670
.dw loc_0_168A
.dw loc_0_1732
.dw loc_0_1757
                                                                       .dw loc 0 178E
162F
162F
162F
                                    loc_0_162F:
                                                                                                                                                                           ; CODE XREF: 0000:161C|j
162F OF
1630 D2 41 16
1633 3A 88 63
1636 EF
                                                                      rrca
                                                                                      NC, loc_0_1641
a, (unk_0_6388)
0x28
                                                                      jp
ld
                                                                                                                                                                           ; go!
                                                                      rst
1636 EF
1636
1637 A3 16
1639 BB 16
163B 32 17
163D 57 17
                                                                      .dw loc_0_16A3
.dw loc_0_16BB
.dw loc_0_1732
.dw loc_0_1757
                                                                                                                                                                            ; Jump table
163D 57 17
163F 8E 17
1641
1641
1641 1641 1641 1644 1 1644 1 1644 1 1644 1 1647 1 1647 1 1647 1 1647 1 1647 1 1648 1 1647 1 1648 1 1648 1 1648 1 1648 1 1648 1 1654 1 1654 1 1654 1 1654 1 1654 1 1654 1 1654 1 1654 1 1654
                                                                       .dw loc_0_178E
                                                                                                                                                                           ; CODE XREF: 0000:1630 j
                                    loc_0_1641:
                                                                      call
ld
                                                                                      sub_0_1DBD
a, (unk_0_6388)
0x28
                                                                      rst
                                                                                                                                                                           ; qo1
                                                                       .dw unk_0_17B6
                                                                      .dw unk_0_1786
.dw loc_0_3069
.dw loc_0_1839
.dw loc_0_186F
.dw loc_0_1880
.dw loc_0_18C6
1652 C6 18
1654
1654
1654 CD 08 17
1657 21 5C 38
165A CD 4E 00
165D 3E 20
165F 32 09 60
                                    loc_0_1654:
                                                                                                                                                                           ; DATA XREF: 0000:1623\u00e10
                                                                                      sub_0_1708
hl, #dk_normal_spr
copy_sprites_2_11_data
                                                                      call
                                                                      ld
call
ld
                                                                                       (eight_bit_countdown), a
                                                                      ld
1662 1662 21 88 63 1665 34 1666 3E 01 1668 F7 1669 21 0B 69 1660 DF 1670 DF 1670 DF 1671 21 32 39 1674 CD 4E 00 1677 3E 20 1679 32 09 1679 32 09 1679 32 09 1679 32 09 1679 32 09 1675 34 1680 3E 04 1680 3E 04 1680 BF 1686 0E 04 1688 FF
                                                                                                                                                                           ; CODE XREF: 0000:16A0|j
                                     loc_0_1662:
                                                                                      hl, #unk_0_6388
(hl)
                                                                      ld
inc
                                                                                     (hl)
a, #1
0x30
hl, #soft_sprite_ram+0xB
c, #0xFC; '3'
                                                                      ld
rst
ld
                                                                                                                                                                              return if level bit not set sprite #2, x coord
                                                                      1d
                                                                                                                                                                            ; subtract 4 from x coord for 10 sprites
                                                                      ret
                                                                                                                                                                           ; DATA XREF: 0000:1625<sup>o</sup>; wait for 8-bit countdown
                                    loc_0_1670:
                                                                      rst
                                                                                       0x18
                                                                                       hl, #dk throw barrel spr
                                                                      1d
                                                                                      n1, #dk_throw_barrel_spr
copy_sprites_2_11_data
a, #0x20; ''
(eight_bit_countdown), a
h1, #unk_0_6388
                                                                      call
ld
ld
                                                                      ld
                                                                                       (hl)
a, #4
0x30
                                                                      inc
                                                                                                                                                                           ; return if level bit not set
; sprite #2, x coord
; +4
                                                                      rst
ld
                                                                                      hl, #soft_sprite_ram+0xB
c, #4
                                                                      ld
rst
                                                                                                                                                                            ; add 4 to x coord for 10 sprites
1689 C9
                                                                      ret
168A
168A
168A
                                                                                                                                                                           ; DATA XREF: 0000:1627\u00e9o
; wait for 8-bit countdown
                                    loc_0_168A:
168B 21 8C 38
                                                                                       hl, #dk_climbing_spr
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
168E CD 4E 00
                                                                call
                                                                               copy_sprites_2_11_data
168E CD 4E 00
1691 3E 66
1693 32 0C 69
1696 AF
1697 32 24 69
169A 32 2C 69
169D 32 AF 62
16AO C3 62 16
16A3
                                                                ld
                                                               ld
xor
ld
                                                                               (soft_sprite_ram+0xC), a
                                                                                                                                                        ; sprite #3, y coord
                                                                               (soft_sprite_ram+0x24), a
                                                                               (soft_sprite_ram+0x2C), a (unk_0_62AF), a
                                                                1d
                                                                14
                                                                               loc_0_1662
                                                                jp
16A3

16A3

16A3

16A3 CD 08 17

16A6 3A 10 69

16A9 D6 3B

16AB 21 5C 38

16AE CD 4E 00

16B1 21 08 69

16B4 4F

16B5 FF

16B6 21 88 63

16B9 34

16BA C9

16BB

16BB

16BB
                                loc_0_16A3:
                                                                                                                                                          ; DATA XREF: 0000:1637\o
                                                                call
                                                                              a, (soft_sprite_ram+0x10)
#0x3B; ';'
hl, #dk_normal_spr
copy_sprites_2_11_data
hl, #soft_sprite_ram+8
c, a
0x38
                                                                                                                                                           ; sprite #4, y coord
                                                                ld
                                                                sub
                                                               ld
call
ld
                                                                                                                                                           ; sprite #2. v coord
                                                                ld
                                                                rst
ld
                                                                              hl, #unk_0_6388
(hl)
                                                                                                                                                           ; add C to y coord for 10 sprites
                                                                inc
                                loc_0_16BB:
                                                                                                                                                           ; DATA XREF: 0000:16391o
16BB
16BB AF 16BC 32 AO 62 16BF 3A A3 63 16C2 4F 16C3 3A 10 69 16C6 FE 5A 16C8 D2 E1 16
                                                                xor
ld
                                                                               a
(unk_0_62A0)
                                                                              a, (unk_0_63A3)
                                                                ld
                                                                14
                                                                ld
                                                                                     (soft_sprite_ram+0x10)
                                                                                                                                                           ; sprite #4, y coord
                                                                              #0x5A; 'Z'
NC, loc_0_16E1
                                                               cp
jp
bit
16CB CB 79
16CD CA D5 16
16D0
16D0
                                                                              7, c
Z, loc_0_16D5
                                                                jр
                                                                                                                                                           ; CODE XREF: 0000:16E8|j
                                loc 0 16D0:
16D0 3E 01
16D2 32 A0 62
16D5
                                                                              a, #1
(unk_0_62A0), a
                                                                                                                                                           ; CODE XREF: 0000:16CD<sup>†</sup>j; 0000:16EB<sup>†</sup>j
16D5
                                loc 0 16D5:
16D5 CD 02 26
16D5
16D8 3A A3 63
                                                                               sub_0_2602
                                                                call
                                                                              a, (unk_0_63A3)
c, a
hl, #soft_sprite
                                                                ld
ld
16DB 4F
16DC 21 08 69
16DF FF
                                                               ld
rst
                                                                               hl, #soft_sprite_ram+8
0x38
                                                                                                                                                            ; sprite #2, y coord
; add C to y coord for 10 sprites
16E0 C9
                                                               ret
16E1
16E1
16E1
                                                                                                                                                           ; CODE XREF: 0000:16C8 j
                                 loc_0_16E1:
16E1
16E1 FE 5D
16E3 DA EE 16
16E6 CB 79
16E8 CA DO 16
                                                                               #0x5D ; ']'
                                                                ср
                                                                               C, loc_0_16EE
7, c
Z, loc_0_16D0
                                                                jp
bit
                                                                jр
16EB C3 D5 16
                                                                               loc 0 16D5
16EE
16EE
                                                                                                                                                           ; CODE XREF: 0000:16E3 j
                                loc_0_16EE:
16EE
16EE 21 8C 38 16F1 CD 4E 00 16F4 3E 66 16F6 32 0C 69 16F9 AF 16FA 32 2C 69 1700 32 AF 62 1703 21 88 63 1706 34 1707 C9 1708
                                                                              h1, #dk_climbing_spr
copy_sprites_2_11_data
a, #0x66; 'f'
(soft_sprite_ram+0xC), a
                                                               ld
                                                                call
ld
                                                                                                                                                           ; sprite #4, x coord
                                                                ld
                                                                xor
                                                                               (soft_sprite_ram+0x24), a
(soft_sprite_ram+0x2C), a
(unk_0_62AF), a
                                                                ld
ld
                                                                ld
                                                               ld
inc
ret
                                                                                      #unk_0_6388
                                                                               (hl)
1708
1708
1708
1708
                                                              SUBROUTINE
                                                                                                                                                           ; CODE XREF: 0000:1654<sup>p</sup>; 0000:16A3<sup>p</sup>
1708
1708 CD 1C 01
1708
                                sub_0_1708:
                                                                call
                                                                               stop_sound
                                                                              h1, #soft_sprite_ram+0x120 (h1), #0x80; 'C'
170B 21 20 6A
170B 21 20 6A
170E 36 80
1710 23
1711 36 76
1713 23
1711 36 09
1716 23
1717 36 20
1719 21 05 69
171C 36 13
171E 21 C4 75
1721 11 20 00
1724 3E 10
1726 CD 14 05
1729 21 8A 60
172C 36 07
1722 36 07
                                                                ld
                                                               ld
inc
ld
                                                                              hl
(hl), #0x76; 'v'
                                                                inc
                                                                               hl
                                                               ld
inc
ld
                                                                               (hl), #9
                                                                              hl
(hl), #0x20; ''
                                                                              hl, #soft_sprite_ram+5
(hl), #0x13
hl, #VRAM_start+0x1C4
                                                                                                                                                          ; sprite #1, flipy & code
; pauline, front-on
                                                                ld
                                                               ld
ld
                                                                ld
ld
                                                                               de, \#0x20
                                                                                    #0x10
                                                                              display_3_tiles_HL
hl, #unk_0_608A
(hl), #7
                                                               call
ld
ld
         23
36 03
172E
                                                                inc
ld
172F 36
1731 C9
1731
                                                                               (hl), #3
                                                                ret
                                 ; End of function sub 0 1708
                                                                                                                                                           ; DATA XREF: 0000:1629\u00f30; 0000:1638\u00e90
                                loc 0 1732:
1732 CD 6F 30
1732
1735 3A 13 69
                                                                               sub_0_306F
                                                                call
                                                                              a, (soft_sprite_ram+0x13)
#0x2C; ','
                                                                ld
                                                               cp
ret
xor
 1738 FE 2C
    3A D0
3B AF
173B AF
173C 32 00 69
173F 32 04 69
1742 32 0C 69
1745 3E 6B
1747 32 24 69
174B 3D
174B 32 2C 69
174E 21 21 6A
                                                                               (soft_sprite_ram), a
(soft_sprite_ram+4), a
(soft_sprite_ram+0xC), a
a, #0x6B; 'k'
                                                                                                                                                           ; sprite #0, y coord
; sprite #1, y coord
; sprite #3, y coord
                                                                ld
ld
                                                                ld
ld
                                                                               (soft_sprite_ram+0x24), a
                                                                ld
                                                               dec
                                                                              a
(soft_sprite_ram+0x2C), a
hl, #soft_sprite_ram+0x121
(hl)
```

ld

hl, #unk_0_6388

1751 34 1752 21 88 63

```
(hl)
  1756 C9
 1756 C9
1757
1757
1757
1757 CD 6F 30
1757
                                                                                                                                                                                                                                                                                                                                                                                                                                ; DATA XREF: 0000:162B†o; 0000:163D†o
                                                                                        loc_0_1757:
                                                                                                                                                                          call
                                                                                                                                                                                                                   sub 0 306F
  1757
175A CD 6C 17
175D 23
175E 13
                                                                                                                                                                          call
inc
inc
                                                                                                                                                                                                                    sub_0_176C
                                                                                                                                                                                                                   hl
175E 13
175F CD 83 17
1762 3E 40
1764 32 09 60
1767 21 88 63
1768 34
176B C9
176C
176C
176C
176C
176C
176C 11 03 00
176F 21 2F 69
1772 06 0A
1774
1774
                                                                                                                                                                                                                   de
                                                                                                                                                                          call
ld
ld
                                                                                                                                                                                                                   sub_0_1783
a, #0x40; '@'
(eight_bit_countdown), a
                                                                                                                                                                        ld
inc
ret
                                                                                                                                                                                                                  hl, #unk_0_6388
(hl)
                                                                                                                                                                        SUBROUTINE
                                                                                                                                                                                                                                                                                                                                                                                                                                 ; CODE XREF: 0000:175A p
                                                                                        sub 0 176C:
                                                                                                                                                                         ld
ld
ld
                                                                                                                                                                                                                  de, #3
hl, #soft_sprite_ram+0x2F
b, #0xA
  1774
1774
1774 A7
1775 7E
1776 ED 52
1778 FE 19
177A D2 7F 17
177D 36 00
                                                                                        loc_0_1774:
                                                                                                                                                                                                                                                                                                                                                                                                                                 ; CODE XREF: sub_0_176C+14|j
                                                                                                                                                                                                                  a, (hl)
hl, de
                                                                                                                                                                          ld
                                                                                                                                                                                                                   hl, de
#0x19
NC, loc_0_177F
(hl), #0
                                                                                                                                                                          sho
                                                                                                                                                                          ср
  177F
177F
177F
177F
                                                                                        loc_0_177F:
                                                                                                                                                                                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_176C+E^j
                         2B
10 F2
                                                                                                                                                                                                                   loc_0_1774
                                                                                                                                                                         dinz
                                                                                        ret
; End of function sub_0_176C
                         C9
 1783
1783
1783
1783
                                                                                                                                                                    SUBROUTINE
1783
1783
1783 06 0A
1785
1785
1785 7E
                                                                                                                                                                                                                                                                                                                                                                                                                                ; CODE XREF: 0000:175F1p
                                                                                       sub_0_1783:
                                                                                                                                                                         ld
                                                                                                                                                                                                                  b, #0xA
                                                                                       loc 0 1785:
                                                                                                                                                                                                                                                                                                                                                                                                                               ; CODE XREF: sub 0 1783+8-j
                                                                                                                                                                          14
                                                                                                                                                                                                                   a, (hl)
 1785 7E
1786 A7
1787 C2
178A 19
178B 10
178D C9
178D
                        A7
C2 26 00
                                                                                                                                                                                                                 a
NZ, pop_hl_ret
hl, de
loc_0_1785
                                                                                                                                                                          jp
add
                        19
10 F8
                                                                                        djnz loc_(
ret
; End of function sub_0_1783
  178D
  178E
178E
178E
                                                                                        loc_0_178E:
                                                                                                                                                                                                                                                                                                                                                                                                                                 ; DATA XREF: 0000:162D10
178E DF 178E DF 178E DF 178E DF 1792 23 1793 7E 1794 FE 7F 1796 C2 9D 17 1799 21 73 3A 179C 7E 179D 179D 179D 21 22 2A 62
                                                                                                                                                                                                                                                                                                                                                                                                                                 ; 0000:163F\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagg
                                                                                                                                                                                                                   0x18
hl, (seq_data)
                                                                                                                                                                          rst
ld
                                                                                                                                                                                                                   hl
                                                                                                                                                                          inc
ld
                                                                                                                                                                                                                                 (hl)
                                                                                                                                                                                                                   a, (h1)
#0x7F; '
NZ, loc_0_179D
                                                                                                                                                                                                                                                                                                                                                                                                                               ; restart repeating levels?
; no, skip
; repeating levels
; get new level
                                                                                                                                                                          ср
                                                                                                                                                                          jp
1d
                                                                                                                                                                                                                  hl, #level_seq_2
                                                                                                                                                                          ld
                                                                                                                                                                                                                                 (hl)
                                                                                       loc_0_179D:
                                                                                                                                                                                                                                                                                                                                                                                                                               ; CODE XREF: 0000:1796 j
1790 22 2A 62
1740 32 27 62
1740 32 27 62
1743 11 00 05
1746 CD 9F 30
1749 AF
1748 32 88 63
1740 21 09 60
1780 36 03
1785 9
1785 9
1785 9
1786 00
1787 CD 1C 01
1787 1787 CD 1C 01
1787 1787 CD 1C 01
1788 23 10
1789 36 08
1789 36 08
1789 36 08
1789 37 08
1700 36 03
1702 3E 10
1704 11 20 00
1704 11 20 00
1704 11 20 00
1704 11 20 00
1704 11 20 00
1704 11 20 00
1705 11 40 38
1708 CD 26 18
1799 11 47 3A
1798 CD 47 0D
1795 21 D5 76
1796 CD 26 18
1799 11 47 3A
1798 CD 47 0D
1797 21 CB 76
1798 CD 47 0D
1798 CD
                                                                                                                                                                                                                  (seq_data), hl
(level_type), a
de, #0x500
queue_fg_vector_fn
                                                                                                                                                                          ld
                                                                                                                                                                          ld
ld
                                                                                                                                                                                                                                                                                                                                                                                                                                ; update_bonus_timer
                                                                                                                                                                          call
                                                                                                                                                                         xor
ld
ld
ld
                                                                                                                                                                                                                  a
(unk_0_6388), a
hl, #eight_bit_countdown
(hl), #0x30; '0'
                                                                                                                                                                          inc
ld
                                                                                                                                                                                                                    (hl), #8
                                                                                                                                                                                                                                                                                                                                                                                                                                 ; sequencer = how high screen
                                                                                                                                                                          ret
                                                                                         unk_0_17B6:
                                                                                                                                                                          .db
                                                                                                                                                                                                              0 ;
                                                                                                                                                                                                                                                                                                                                                                                                                                ; DATA XREF: 0000:1648 o
                                                                                                                                                                         call
ld
                                                                                                                                                                                                                stop_sound
hl, #unk_0_608A
(hl), #0xE
hl
(hl), #3
a, #0x10
de, #0x20; ''
hl, #VRAM_start+0x223
display_3_tiles_HL
hl, #VRAM_start+0x183
display_3_tiles_LL
hl, #VRAM_start+0x2DA
clear_14x5_HL
de, #draw data rivet e
                                                                                                                                                                                                                   stop sound
                                                                                                                                                                         ld
inc
ld
ld
                                                                                                                                                                                                                                                                                                                                                                                                                                ; <space>
; inc by column
                                                                                                                                                                         ld
ld
call
                                                                                                                                                                         ld
call
ld
call
                                                                                                                                                                                                                 clear_14x5_HL
de, #draw_data_rivet_end1
draw_level_background
hl, #VRAM_start+0x2D5
clear_14x5_HL
de, #draw_data_rivet_end2
draw_level_background
hl, #VRAM_start+0x2D0
clear_14x5_HL
de, #draw_data_rivet_end3
                                                                                                                                                                         call
ld
call
ld
call
ld
call
                                                                                                                                                                          call
                                                                                                                                                                         ld
call
                                                                                                                                                                                                                   de, #draw_data_rivet_end3
draw_level_background
                                                                                                                                                                          ld
                                                                                                                                                                                                                   hl, #VRAM_start+0x2CB
clear 14x5 HL
                                                                                                                                                                         call
ld
call
                                                                                                                                                                                                                 clear_14x5_HL
de, #draw_data_rivet_end4
draw_level_background
hl, #dk_normal_spr
copy_sprites_2_11_data
hl, #soft_sprite_ram+8
c, #68
0x38
                                                                                                                                                                          ld
                                                                                                                                                                         call
ld
ld
                                                                                                                                                                                                                                                                                                                                                                                                                                ; sprite #2, y coord
                                                                                                                                                                                                                                                                                                                                                                                                                                ; add 68 to y coord for 10 sprites ; sprite #1, yflip & code
 180E FF
180F 21 05 69
                                                                                                                                                                          rst
ld
                                                                                                                                                                                                                   hl, #soft_sprite_ram+5
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
                                                                  (hl), #0x13
                                                     ld
1812 36 13

1814 3E 20

1816 32 09 60

1819 3E 80

181B 32 90 63

181E 21 88 63

1821 34

1822 22 C0 63

1825 C9
                                                     ld
                                                     ld
ld
ld
                                                                  (eight_bit_countdown), a
                                                                  a, #UX8U , 
(kong_thrash_tmr), a
                                                     ld
inc
                                                                  hl, #unk_0_6388 (hl)
                                                     ld
                                                                  (unk_0_63C0), hl
                                                     ret
```

SUBROUTINE

de, #0xFFDB

c, #0xE a, #0x10

b. #5

hl

(hl), a

loc_0_182F hl, de

NZ de, #0x39CF

de, #0x39F7

de hl

0x38

3, (hl) NZ, loc_0_184E

NZ, loc_0_182D

hl, #kong_thrash_tmr (hl) z, loc_0_1859 a, (hl) #7

copy_sprites_2_11_data hl, #soft_sprite_ram+8 c, #68

hl, #dk_normal_spr copy_sprites_2_l1_data hl, #soft_sprite_ram+8 c, #68 0x38 a, #0x20;'''

a, #0x20; (eight_bit_countdown), a

0x18
hl, #fk_falling_spr
copy_sprites_2_11_data
a, #3

 $hl\,,\,\,\#soft_sprite_ram+0xB$

a, (soft_sprite_ram+0x1B) #0xD0; '&'

(soft_sprite_ram+0x19), a
hl, #soft_sprite_ram+0x124
(hl), #0x7F; ' '

1 (hl), #0xD8; 'I' hl, #VRAM_start+0x2C6 clear_14x5_HL de, #draw_data_rivet_end5

a, #3
(digital_snd_tmr_thump), a

draw_level_background
de, #4
bc, #0x228 hl, #soft_sprite_ram+3 add_c_sprite_register_xB

a, #0 (unk_0_62AF), a

hl, #unk_0_6388 (hl)

hl, #unk_0_62AF (hl)

d, #3 (digital_snd_tmr_kong_fall), a hl, #unk_0_6388 (hl)

hl, #unk_0_6388 (hl)

1826 1826 11 DB FF 1826

1829 OE OE

182B 3E 10 182D 182D

182D 06 05 182F 182F 182F 77

1839 1839 1839 1839 21 90 63

184E 184E EB 184F CD 4E 00 1852 21 08 69 1855 0E 44 1857 FF 1858 C9 1859

186F DF 1870 21 1F 3A 1873 CD 4E 00 1876 3E 03 1878 32 84 60 187E 21 88 63 187E 34 187F C9

1880 21 0B 69 1883 0E 01 1885 FF 1886 3A 1B 69 1889 FE D0

1889 FE DO
188B CO
188C 3E 20
188E 32 19 69
1891 21 24 6A
1894 36 7F
1896 2C
1897 36 39

1897 36 39 1899 2C 189A 36 01 189C 2C 189D 36 D8 189F 21 C6 76 18A2 CD 26 18 18A5 11 5F 3A

18A5 11 5F 3A 18A8 CD A7 0D 18AB 11 04 00 18AE 01 28 02 18B1 21 03 69

18B4 CD 3D 00

18C6 21 AF 62 18C9 35

3E 00 32 AF 62

3E 03 32 82 60

18B7 18B9

18BC

18BE

18BE 32 18C1 21 18C4 34 18C5 C9 18C6 18C6

186E C9 186F 186F 186F

1880 1880 1880

clear_14x5_HL:

loc_0_182D:

loc_0_182F:

loc_0_1839:

loc 0 184E:

loc_0_1859:

loc_0_186F:

loc_0_1880:

loc_0_18C6:

ld

ld

ld

ld

ld

djnz add

dec jp NZ, loc ret ; End of function clear_14x5_HL

> ld inc jp ld and ret ld

> bit

ĭd

ex

ld

call ld

ld call ld ld rst ld

ld

ld inc

ret

rst

ld call

ld ld inc ret

ld

ld rst ld

cp ret ld

ld ld ld inc ld

inc ld

inc ld ld call ld

call ld ld ld

call

ld ld

ld

ld

ld inc ret

1d

c, #1 0x38

NZ a, #0x20 ; ' '

(hl), #0x39 ; '9'

(hl), #1

```
; pauline, straight-on
; CODE XREF: 0000:13221p; 0000:13731p ...
; <space>
; CODE XREF: clear_14x5_HL+F|j
  CODE XREF: clear_14x5_HL+B|j
; display space
; next row
; loop 5 times
; next column
; loop through 14 columns
; DATA XREF: 0000:164C\u00e10
; CODE XREF: 0000:1849<sup>†</sup> †
; sprite #2, y coord
; add 68 to y coord for 10 sprites
; CODE XREF: 0000:183D^j
; sprite #2, y coord
; add 68 to y coord for 10 sprites
; DATA XREF: 0000:164E↑o
; wait for 8-bit countdown
; tmr=3
; DATA XREF: 0000:1650\(^{\)0}
; sprite #2, x coord
  add 1 to x coord for 10 sprites
; sprite #0, x coord
; tmr=3
```

; DATA XREF: 0000:16521o

```
Z, loc_0_193D
a, (hl)
#7
 18CA CA 3D 19
                                                                                                          jp
ld
 18CD 7E
18CE E6 07
18D0 C0
18D1 21 25 6A
18D4 7E
 18CD
                                                                                                          and
ret
ld
                                                                                                                                  NZ
hl, #soft_sprite_ram+0x125
                                                                                                                                  nn, #sot_sprite_ram+0x12:
a, (h1)
#0x80 ; 'C'
(h1), a
h1, #soft_sprite_ram+0x19
b, (h1)
5, b
 18D4 7E
18D5 EE 80
18D7 77
18D8 21 19 69
                                                                                                          1d
                                                                                                          xor
ld
ld
 18DB 46
                                                                                                          ld
 18DC CB A8
18DE AF
18DF CD 09 30
                                                                                                         res
xor
call
                                                                                                                                   sub_0_3009
                                                                                                                                  #0x20; ' ' '
(h1), a
h1, #unk_0_62AF
a, (h1)
#0xE0; 'Ó'
 18E2 F6 20
18E4 77
18E5 21 AF 62
18E8 7E
                                                                                                         or
ld
ld
ld
18E8 7E E0 18E8 C2 10 19 18EE C2 10 19 18EF 32 50 18F3 32 00 18F5 32 4D 69 18FA 32 4C 69 18FA 32 4C 69 1900 FE 80 1902 D2 0F 19 1905 3E 80 1907 32 4D 69 190A 3E 5F 190C 32 4C 69 190F
                                                                                                          cp
jp
ld
                                                                                                                                   NZ, loc_0_1910
                                                                                                                                   a, #0x50 ; 'P'
(soft_sprite_ram+0x4F), a
                                                                                                         ld
ld
ld
ld
ld
cp
                                                                                                                                   (soft_sprite_ram+0x4D), a
                                                                                                                                  a, #0x9F ; 'f'
(soft_sprite_ram+0x4C), a
                                                                                                                                  a, (mario_y_coord)
#0x80; 'C'
NC, loc_0_190F
                                                                                                          jp
ld
                                                                                                         ld
ld
ld
                                                                                                                                    (soft_sprite_ram+0x4D), a
                                                                                                                                   a, #0x5F; '_'
(soft_sprite_ram+0x4C), a
 190F
 190F
190F 7E
1910
                                                     loc_0_190F:
                                                                                                                                                                                                                                                                ; CODE XREF: 0000:1902|j
                                                                                                         ld
                                                                                                                                  a, (hl)
1910 1910 FE CO 1912 CO 1913 21 8A 6O 1918 3A 29 62 1918 0F 1912 38 02 191E 36 05 1920 1920
                                                      loc_0_1910:
                                                                                                                                                                                                                                                                ; CODE XREF: 0000:18EB|j
                                                                                                         cp
ret
                                                                                                                                    #0xC0 ; 'L'
                                                                                                                                  hl, #unk_0_608A
(hl), #0xC
a, (level)
                                                                                                          ld
                                                                                                         ld
ld
                                                                                                          rrca
                                                                                                                                           loc_0_1920
                                                                                                          ĭd
                                                                                                                                   (hl), #5
 1920
                                                      loc 0 1920:
                                                                                                                                                                                                                                                                ; CODE XREF: 0000:191C| j
1920
1920 23
1921 36 03
1923 21 23 6A
1926 36 40
1928 2B
1929 36 09
192B 2B
                                                                                                                                  (h1), #3
h1, #soft_sprite_ram+0x123
(h1), #0x40; '@'
                                                                                                         ld
ld
                                                                                                          ld
                                                                                                                                  hl
(hl), #9
                                                                                                          dec
1d
                                                                                                          dec
ld
192B 2B
192C 36 76
192E 2B
192F 36 8F
1931 3A 03 62
                                                                                                                                    (hl), #0x76; 'v'
                                                                                                          dec
ld
                                                                                                                                  hl (hl), #0x8F; 'Å'
                                                                                                                                   a, (mario_y_coord)
#0x80 ; 'Ç'
                                                                                                          ld
 1934 FE 80
1936 D0
1937 3E 6F
1939 32 20 6A
                                                                                                         cp
ret
ld
                                                                                                                                  NC
a, #0x6F; 'o'
(soft_sprite_ram+0x120), a
                                                                                                          ld
 193C C9
                                                                                                         ret
 193D
193D
193D
193D 2A 2A 62
194D 23
1941 7E
1942 FE 7F
1944 C2 4B 19
1947 21 73 3A
194A 7E
                                                      loc_0_193D:
                                                                                                                                                                                                                                                                 ; CODE XREF: 0000:18CA j
                                                                                                          ld
                                                                                                                                   hl, (seq_data)
                                                                                                                                 hi,
hl
a, (hl)
                                                                                                         inc
                                                                                                                                  a, (h1)

#0x7F; ''

NZ, loc_0_194B

h1, #level_seq_2

a, (h1)
                                                                                                         cp
jp
ld
                                                                                                                                                                                                                                                                  ; restart repeating levels?
                                                                                                                                                                                                                                                                  i no, skip
start repeating levels
get new level
                                                                                                          ld
194B
                                                      loc_0_194B:
                                                                                                                                                                                                                                                                 ; CODE XREF: 0000:1944<sup>†</sup>j
                                                                                                                                   (seq_data), hl
                                                                                                          ld
                                                                                                                                  (level_type), a
hl, #level
(hl)
de, #0x500
                                                                                                          ld
                                                                                                         ld
inc
ld
                                                                                                                                                                                                                                                                 ; next level counter
; update_bonus_timer
                                                                                                          call
1958 CD 9F 30
195B AF
195C 32 2E 62
195F 32 88 63
1962 21 09 60
1965 36 E0
1967 23
1968 36 08
196A C9
                                                                                                                                   queue_fg_vector_fn
                                                                                                          xor
ld
ld
                                                                                                                                    (unk_0_622E), a
                                                                                                                                  (unk_0_6388), a
hl, #eight_bit_countdown
(hl), #0xE0; 'Ó'
                                                                                                          ld
                                                                                                         ld
                                                                                                                                   (hl), #8
                                                                                                                                                                                                                                                                 ; set how high screen
                                                                                                          ld
 196B
196B
                                                      loc_0_196B:
                                                                                                                                                                                                                                                                 ; DATA XREF: 0000:0730 o
 196B
 196B CD 52 08
196E 3A 0E 60
1971 C6 12
1973 32 0A 60
                                                                                                         call
ld
add
                                                                                                                                  clear_tiles_and_sprites
a, (current_player_E)
a, #18
                                                                                                                                                                                                                                                                  ; 0/1
                                                                                                                                                                                                                                                                 ; 18/19
                                                                                                                                    (main_sequencer), a
                                                                                                          1d
 1976 C9
1977
1977
                                                                                                                                                                                                                                                                 ; DATA XREF: 0000:074E10
                                                      attract_mode_gameplay:
 1977 CD EE 21
                                                                                                          call
                                                                                                                                  next_attract_action
                                                                                                                                                                                                                                                                  ; DATA XREF: 0000:071A o
                                                      gameplay:
197A CD BD 1D 197D CD 8C 1E 1980 CD C3 1A 1983 CD 72 1F 1986 CD 8F 2C 198C CD ED 30 198F CD 04 2E 1982 CD EA 24 CD EA 25 CD EA 24 CD EA 24 CD EA 25 CD EA 24 CD EA 25 CD EA 24 CD EA 25 CD EA 24 CD EA 24
                                                                                                          call
                                                                                                                                   sub 0 1DBD
                                                                                                                                                                                                                                                                  ; another jump table
                                                                                                         call
                                                                                                                                   sub_0_1E8C
sub_0_1AC3
                                                                                                          call
                                                                                                                                   sub_0_1F72
sub_0_2C8F
                                                                                                         call
call
                                                                                                                                   sub_0_2C03
sub_0_30ED
                                                                                                                                                                                                                                                                 ; process fireballs?
; process springs
 198F CD 04 2E
1992 CD EA 24
1995 CD DB 2D
1998 CD D4 2E
                                                                                                                                  sub_0_2E04
sub_0_24EA
sub_0_2DDB
sub_0_2ED4
                                                                                                          call
                                                                                                          call
                                                                                                          call
 199B CD 07 22
199E CD 33 1A
                                                                                                                                   sub_0_2207
sub_0_1A33
                                                                                                          call
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
19A1 CD 85 2A

19A4 CD 46 1F

19A7 CD FA 26

19AA CD F2 25

19AD CD DA 19

19B0 CD FB 03

19B3 CD 08 25

19B6 CD 1D 28

19B9 CD 57 1E

19BC CD 07 1A

19BF CD CB 2F

19C2 00

19C3 00

19C4 00
                                                                                                         call
                                                                                                                                 sub_0_2A85
                                                                                                                                 sub_0_1F46
sub_0_26FA
sub_0_25F2
sub_0_19DA
                                                                                                         call
                                                                                                        call
call
                                                                                                        call
call
call
                                                                                                                                 animate_kong_and_pauline
sub_0_2808
sub_0_281D
sub_0_1E57
                                                                                                        call
call
nop
nop
                                                                                                                                 sub 0 1A07
                                                                                                                                 sub_0_2FCB
19C3 00

19C4 00

19C5 3A 00 62

19C8 A7

19C9 C0

19CA CD 1C 01

19CD 21 82 60

19D0 36 03

19D2

19D2 21 0A 60

19D5 34

19D6 2B

19D7 36 40

19D9 C9

19DA
                                                                                                        nop
ld
and
ret
                                                                                                                                 a, (mario_alive_flag)
                                                                                                                                                                                                                                                               ; mario alive?
; yes, return
                                                                                                                                 a
NZ
                                                                                                         call
ld
ld
                                                                                                                                 stop_sound
hl, #digital_snd_tmr_thump
(hl), #3
                                                                                                                                                                                                                                                               ; tmr=3
                                                      loc_0_19D2:
                                                                                                                                                                                                                                                               ; CODE XREF: 0000:1A30|j
                                                                                                         ld
                                                                                                                                 hl, #main_sequencer(hl)
                                                                                                         inc
                                                                                                                                                                                                                                                               ; next sequence
; 8-bit countdown
                                                                                                        ld
ret
                                                                                                                                  (hl), #64
 19DA
19DA
                                                                                                         SUBROUTINE
 19DA
19DA
19DA
19DA
                                                                                                                                                                                                                                                               ; CODE XREF: 0000:19AD|p
                                                      sub_0_19DA:
 19DA 3A 03 62
19DD 06 03
19DF 21 0C 6A
19E2
                                                                                                         1d
                                                                                                                                 a, (mario_y_coord)
                                                                                                        ld
ld
                                                                                                                                 hl, #soft_sprite_ram+0x10C
19E2
19E2 BE
19E3 CA ED 19
                                                      loc_0_19E2:
                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_19DA+10|j
                                                                                                         ср
                                                                                                                                 Z, loc_0_19ED
                                                                                                         jp
inc
 19E5 CA ED
19E6 2C
19E7 2C
19E8 2C
19E9 2C
19EA 10 F6
                                                                                                         inc
 19EA 10
19EC C9
19ED
                                                                                                         djnz
                                                                                                                                 loc_0_19E2
 19ED
 19ED
                                                      loc 0 19ED:
                                                                                                                                                                                                                                                             ; CODE XREF: sub 0 19DA+91i
19ED 3A 05 62 19F0 2C 19F1 2C 19F2 2C 19F3 BE 19F4 CO 19F5 2D 19F6 2D 19F7 CB 5E 19F9 CO 19F5 2D 19F7 CB 5E 19F9 CO 19F5 2D 19F7 CB 5E 19F9 CO 19F5 2D 19F7 2C 19F7 2D 19F7 2D
                                                                                                                                 a, (mario_x_coord)
                                                                                                         inc
inc
inc
                                                                                                        cp
ret
                                                                                                                                   (hl)
                                                                                                                                 NZ
                                                                                                        dec
dec
bit
                                                                                                                                         (hl)
                                                                                                         ret
19F9 CU
19FA 2D
19FB 22 43 63
19FE AF
19FF 32 42 63
1A02 3C
1A03 32 40 63
1A06 C9
                                                                                                         dec
                                                                                                        ld
xor
ld
                                                                                                                                    unk_0_6343), hl
                                                                                                                                  (unk_0_6342), a
                                                                                                        ld
ret
                                                                                                                                  (unk_0_6340), a
                                                      ; End of function sub_0_19DA
 1A06
 1A06
1A07
1A07
1A07
1A07
1A07
                                                      ; SUBROUTINE
                                                                                                                                                                                                                                                               ; CODE XREF: 0000:19BC↑p
                                                      sub_0_1A07:
                3A 86 63
                                                                                                         ld
                                                                                                                                           (unk_0_6386)
rst
                                                                                                                                                                                                                                                               ; go!
                                                                                                         .dw locret_0_1A1E
.dw loc_0_1A15
.dw loc_0_1A1F
.dw loc_0_1A2A
.dw 0
                                                                                                                                                                                                                                                               ; Jump table
                                                       loc_0_1A15:
                                                                                                                                                                                                                                                               ; DATA XREF: sub_0_1A07+6↑o
                                                                                                         xor
                                                                                                                                 (unk_0_6387), a
                                                                                                         ld
                                                                                                         ld
ld
                                                                                                                                 (unk_0_6386), a
                                                                                                                                                                                                                                                               ; DATA XREF: sub 0 1A07+410
                                                      locret_0_1A1E:
                                                                                                       ret
                                                       ; End of function sub_0_1A07
                                                       loc_0_1A1F:
                                                                                                                                                                                                                                                               ; DATA XREF: sub_0_1A07+8↑o
                                                                                                         ld
                                                                                                                                 hl. #0x6387
                                                                                                        dec
ret
ld
                                                                                                                               (h.
NZ
''. #3
                                                                                                                                  (h1)
                                                                                                                                 a, #3
(unk_0_6386), a
                                                                                                         ld
                                                                                                                                                                                                                                                               ; DATA XREF: sub 0 1A07+A10
                                                      loc_0_1A2A:
                                                                                                        ld
and
                                                                                                                                 a, (mario_jumping)
                                                                                                                                 a
NZ
                                                                                                         ret
                                                                                                         pop
jp
                                                                                                                                 hl
                                                                                                                                  loc_0_19D2
                                                                                                         SUBROUTINE
```

sub_0_1A33:

1d

rst

#8 a, #8

3E 08

1A35 F7

; CODE XREF: 0000:199E↑p

; return if level bit not set

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
 1A36 3A 03 62
                                                                     a, (mario_y_coord)
                                                       ld
1A36 3A 03 62

1A39 FE 4B

1A3B CA 4B 1A

1A3E FE B3

1A40 CA 4B 1A

1A43 3A 91 62

1A46 3D

1A47 CA 51 1A

1A4A C9
                                                       cp
jp
                                                                     #0x4B ;
                                                                     Z, loc_0_1A4B
#0xB3; '|'
Z, loc_0_1A4B
                                                       jp
ld
                                                                    a, (unk_0_6291)
                                                       dec
jp
ret
                                                                    a
Z, loc_0_1A51
1A4B
1A4B
1A4B
1A4B 3E 01
                                                                                                                                       ; CODE XREF: sub_0_1A33+8<sup>†</sup>j; sub_0_1A33+D<sup>†</sup>j
                             loc_0_1A4B:
1A4B
1A4D 32 91 62
1A50 C9
1A51
                                                       1d
                                                                     a, #1
(unk_0_6291), a
                                                       ld
                                                       ret
1A51
1A51
1A51
1A51
1A51 32 91 62
1A54 47
1A55 3A 05 62
1A58 3D
1A59 FE DO
                             loc_0_1A51:
                                                                                                                                       ; CODE XREF: sub_0_1A33+14 j
                                                       ld
                                                                     (unk_0_6291), a
                                                       ld
                                                                    b, a
a, (mario_x_coord)
                                                       ld
dec
                                                                     #0xD0 ; 'ð'
                                                       ср
 1A5B D0
                                                       ret
                                                       rlca
                                                                     NC, loc_0_1A62
                                                       qį
                                                       set
 1A60 CB D0
1A62
1A62
1A62
1A62 07
1A63 07
                             loc_0_1A62:
                                                                                                                                       ; CODE XREF: sub_0_1A33+2A<sup>†</sup> j
                                                       rlca
                                                       rlca
1A63 U/
1A64 D2 69 1A
1A67 CB C8
1A69
1A69
                                                                    NC, loc_0_1A69
1, b
; CODE XREF: sub_0_1A33+31 j
                             loc 0 1A69:
                                                       and
                                                                    #6
NZ, loc_0_1A72
                                                       ср
                                                       jр
                                                       set
                                                                     1. b
                                                                                                                                       ; CODE XREF: sub_0_1A33+3A1j
                             loc_0_1A72:
                                                       ld
                                                                     a, (mario_y_coord)
                                                       rlca
                                                                    NC, loc_0_1A7B
                                                       jp
set
                             loc 0 1A7B:
                                                                                                                                       ; CODE XREF: sub 0 1A33+431i
                                                                    hl, #unk_0_6292
a, b
a, l
l, a
                                                       ld
ld
                                                       add
                                                       ld
ld
                                                                    a, (hl)
                                                       and
1A82 A7
1A83 C8
1A84 36 00
1A86 21 90 62
1A89 35
1A8A 78
1A8B 01 05 00
1A8E 1F
1A8F DA BD 1A
                                                       ret
ld
ld
                                                                    (h1), #0
h1, #unk_0_6290
(h1)
                                                       dec
                                                       ld
                                                                     a, b
                                                       ld
rra
                                                                    C, loc_0_1ABD hl, #0x2CB
                                                       jp
ld
1A8F DA BD 1A
1A92 21 CB 02
1A95
1A95
1A95
1A96 CA 9E 1A
                                                                                                                                       ; CODE XREF: sub_0_1A33+8D|j
                             loc_0_1A95:
                                                       and
                                                                    Z, loc_0_1A9E
                            loc_0_1A99:
                                                                                                                                       ; CODE XREF: sub_0_1A33+68|j
 1A99 09
                                                       add
                                                                    hl, bc
1A9B C2 99 1A
1A9E
                                                                     NZ, loc_0_1A99
                                                       jр
1A9E
1A9E
1A9E
1A9E
1A9E
1A9E
1A9C
1AA1
19
1AA2
3E
10
1AA4
77
1AA5
2D
1AA6
77
1AA7
2C
1AA9
77
1AA7
2C
1AA9
77
1AA6
2C
1AA9
77
1AA7
3E
1AB6
3E
1AB6
3E
1AB6
3E
1AB6
3E
1AB6
1AB6
1AB6
1ABB0
1ABB0
1ABB0
1ABB0
1ABB0
1ABB0
1ABB0
1ABA0
1ABA1
1ABB0
 1A9E
                            loc_0_1A9E:
                                                                                                                                       ; CODE XREF: sub_0_1A33+631j
                                                                    bc, #VRAM_start
hl, bc
a, #0x10
(hl), a
                                                       ld
add
                                                       ld
                                                       ld
dec
                                                                     (hl), a
                                                       inc
                                                                    (h1), a
a, #1
(unk_0_6340), a
(unk_0_6342), a
(unk_0_6225), a
                                                       ld
ld
                                                       ld
                                                       ld
ld
                                                       ld
                                                                     a, (mario_jumping)
                                                                     Z, sub_0_1D95
                                                       call
ret
1ABD
1ABD
1ABD 21 2B 01
1ACO C3 95 1A
                             loc_0_1ABD:
                                                                                                                                      ; CODE XREF: sub_0_1A33+5C|j
                                                       ld
                             jp loc_
; End of function sub_0_1A33
                                                                     loc 0 1A95
SUBROUTINE
                                                                                                                                       ; CODE XREF: 0000:1980 p
                             sub 0 1AC3:
                                                       ld
                                                                    a, (mario_jumping)
                                                       dec
jp
ld
                                                                    a, (unk_0_621E)
a
                                                       and
 1ACE C2 55 1B
1AD1 3A 17 62
1AD4 3D
                                                       jp
ld
                                                                    NZ, loc_0_1B55
a, (unk_0_6217)
                                                                    a
Z, loc_0_1AE6
a, (mario_climbing)
```

dec

jp ld dec

jp ld

Z. loc 0 1B38

1AD5 CA E6 1A 1AD8 3A 15 62 1ADB 3D

1ADC CA 38 1B 1ADF 3A 10 60

```
1AE2 17
                                                                                                 rla
                                                                                                                                                                                                                                              ; jump pressed?
 1AE3 DA 6E 1B
                                                                                                                                                                                                                                             ; yes, skip
                                                                                                                       C. loc 0 1B6E
 1AE6
 1AE6
1AE6 CD 1F 24
                                                 loc_0_1AE6:
                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+12 j
                                                                                                                       sub_0_241F
 1AE9 3A 10 60
1AEC 1D
                                                                                                                       a, (controller_in)
                                                                                                 ld
dec
1AEC 1D
1AED CA F5 1A
1AF0 CB 47
1AF2 C2 8F 1C
1AF5
1AF5 15
                                                                                                jp
bit
                                                                                                                        Z, loc_0_1AF5
                                                                                                                        NZ, loc_0_1C8F
                                                                                                 jр
                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+2A<sup>†</sup> j
                                                 loc_0_1AF5:
                                                                                                dec
1AF6 CA FE 1A
1AF9 CB 4F
1AFB C2 AB 1C
                                                                                                 jp
bit
                                                                                                                        Z, loc_0_1AFE
                                                                                                                       NZ, loc_0_1CAB
                                                                                                jр
 1AFE
1AFE
1AFE 3A 17 62
1B01 3D
                                                 loc_0_1AFE:
                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+33 j
                                                                                                ld
dec
                                                                                                                        a, (unk_0_6217)
1B01 3D
1B02 C8
1B03 3A 05 62
1B06 C6 08
1B08 57
1B09 3A 03 62
1B0C CB 97
1B10 01 15 00
1B13 CD 6E 23
1B16 F5
1B17 21 07 62
1B18 7E
1B18 B6 80
                                                                                                 ret
                                                                                                ld
add
ld
ld
                                                                                                                       a, (mario_x_coord)
a, #8
d, a
                                                                                                                                (mario_y_coord)
                                                                                                 or
res
                                                                                                                       bc, #0x15
                                                                                                 1d
                                                                                                 call
                                                                                                                        sub_0_236E
                                                                                                push
ld
ld
                                                                                                                       af
hl, #mario_flipy_sprite_tile
                                                                                                                        a, (h1)
#0x80; 'Ç'
1B1A 7E

1B1B E6 80

1B1D F6 06

1B1F 77

1B20 21 1A 62
                                                                                                 and
or
ld
                                                                                                                                                                                                                                            ; mario climbing character
                                                                                                                       (hl), a
hl, #unk_0_621A
a, #4
                                                                                                 ld
1B23 3E 04
1B25 B9
1B26 36 01
                                                                                                ld
cp
ld
                                                                                                                       C (h1), #1
NC, loc_0_1B2C (h1)
                                                                                                                                                                                                                                            ; set as broken ladder
1B28 D2 2C 1B
                                                                                                jp
dec
                                                                                                                                                                                                                                             ; set as normal ladder
                                                 loc 0 1B2C:
                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+65<sup>†</sup>j
                                                                                                pop
and
jp
ld
                                                                                                                       a
Z, loc_0_1B4E
a, (h1)
a
                                                                                                 and
                                                                                                 ret
                                                                                                                        NZ
                                                                                                                        1
(hl), d
                                                                                                 ld
                                                                                                                                                                                                                                            ; set top coordinate of ladder
; set bottom Y coordinate of ladder
                                                                                                 ld
                                                                                                                        (hl), b
1B38

1B38 3A 10 60

1B3B CB 5F

1B3D C2 F2 1C

1B40 3A 15 62

1B43 A7

1B45 CB

1B45 3A 10 60
                                                                                                                                                                                                                                             ; CODE XREF: sub 0 1AC3+19<sup>†</sup> <sup>†</sup>
                                                 loc 0 1B38:
                                                                                                ld
bit
                                                                                                                       a, (controller_in)
                                                                                                                                                                                                                                            ; down?
; yes, go
                                                                                                                        3, a
NZ, loc_0_1CF2
                                                                                                jp
ld
and
ret
                                                                                                                                 (mario_climbing)
                                                 loc_0_1B45:
                                                                                                                                                                                                                                             ; CODE XREF: sub 0 1AC3+8F-i
                                                                                                                       a, (controller_in)
2, a
1B45
1B45 3A 10 60
1B48 CB 57
1B4A C2 03 1D
1B4D C9
1B4E
1B4E
                                                                                                ld
bit
                                                                                                                                                                                                                                            ; up?
; yes, go
                                                                                                                       2, a
NZ, loc_0_1D03
                                                                                                 jр
                                                                                                                                                                                                                                             ; CODE XREF: sub 0 1AC3+6B1 j
 1B4E
                                                 loc_0_1B4E:
1B4E 2C
1B4F 70
1B50 2C
1B51 72
                                                                                                inc
ld
                                                                                                                         (hl), b
                                                                                                                                                                                                                                            ; set top Y corordinate of ladder ; set bottom coordinate of ladder
                                                                                                 inc
1B51 72
1B52 C3 45 1B
1B55
1B55
                                                                                                                         (h1).
                                                                                                 1d
                                                                                                                         loc_0_1B45
1855 | 1855 | 1855 | 1855 | 1856 | 1858 | 35 | 1859 | CO | 1858 | 34 | 18 | 62 | 1850 | 32 | 17 | 62 | 1863 | 7e | 1864 | E6 | 80 | 1866 | 77 | 1867 | AF | 1868 | 32 | 02 | 62 | 1868 | C3 | A6 | 1D | 1865 | Table |
                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+B<sup>†</sup> j
                                                 loc_0_1B55:
                                                                                                                       hl, #unk_0_621E
(hl)
                                                                                                ld
dec
                                                                                                                       (NI)
NZ
a, (unk_0_6218)
(unk_0_6217), a
hl, #mario_flipy_sprite_tile
a, (hl)
#0x80; 'C'
(hl), a
                                                                                                 ret
                                                                                                 ld
ld
ld
                                                                                                 ld
                                                                                                 and
ld
                                                                                                                                                                                                                                            ; h-flip mario
                                                                                                 xor
ld
                                                                                                                         a
(unk_0_6202), a
1868 32 02 02
1868 C3 A6 1D
186E
186E
                                                                                                                        loc_0_1DA6
 1B6E
                                                 loc_0_1B6E:
                                                                                                                                                                                                                                             ; CODE XREF: sub_0_1AC3+20 j
1B6E
1B6E 3E 01
1B70 32 16 62
1B73 21 10 62
1B76 3A 10 60
1B79 01 80 00
1B7C 1F
                                                                                                                                                                                                                                            ; start_jump
; set mario jumping
                                                                                                 ld
                                                                                                                       (mario_jumping), a
hl, #unk_0_6210
a, (controller_in)
bc, #0x80; 'Ç'
                                                                                                 ld
ld
                                                                                                ld
ld
                                                                                                                                                                                                                                              ; right?
                                                                                                 rra
1B7C 1F

1B7D DA 8A 1B

1B80 01 80 FF

1B83 1F

1B84 DA 8A 1B

1B87 01 00 00
                                                                                                jp
ld
rra
                                                                                                                        C. loc 0 1B8A
                                                                                                                                                                                                                                             ; yes, skip
                                                                                                                        bc, #0xFF80
                                                                                                                                                                                                                                            ; left?
; yes, skip
                                                                                                                        C, loc_0_1B8A
                                                                                                jp
ld
 1B8A
1B8A
                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+BA^j; sub_0_1AC3+C1^j;
                                                 loc_0_1B8A:
 1B8A AF
 1B8A
                                                                                                 xor
 1B8B
1B8C
                                                                                                 ld
                                                                                                                         (hl), b
188B 70
188C 2C
188D 71
188E 2C
188F 36 01
1891 2C
                                                                                                                         (hl), c
                                                                                                ld
inc
                                                                                                 ld
                                                                                                                          (hl), #1
1B92 36 48
1B94 2C
                                                                                                                         (hl), #0x48; 'H'
                                                                                                 1d
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
 1B96 32 04 62
1B99 32 06 62
1B9C 3A 07 62
1B9F E6 80
                                                                                                                     (unk_0_6204), a
(unk_0_6206), a
a, (mario_flipy_sprite_tile)
#0x80; 'C'
                                                                                               ld
                                                                                              ld
ld
and
1B9F E6 80

1BA1 F6 0E

1BA3 32 07 62

1BA6 3A 05 62

1BA9 32 0E 62

1BAC 21 81 60

1BAF 36 03

1BB1 C9

1BB2
                                                                                              or
ld
ld
ld
                                                                                                                     #0xE
                                                                                                                                                                                                                                      ; mario jumping character
                                                                                                                    #UNE
(mario_flipy_sprite_tile), a
a, (mario_x_coord)
(unk_0_620E), a
hl, #digital_snd_tmr_jump
(hl), #3
                                                                                               ld
                                                                                              ld
ret
                                                                                                                                                                                                                                       ; tmr=3
IBB2 | 18B2 | 18
 1BB2
                                                loc_0_1BB2:
                                                                                                                                                                                                                                       ; CODE XREF: sub_0_1AC3+4<sup>†</sup>j
                                                                                               ld
                                                                                                                     ix, #mario_alive_flag
                                                                                                                    a, (mario_y_coord)

0xB(ix), a

a, (mario_x_coord)

0xC(ix), a

sub_0_239C
                                                                                               ld
                                                                                              ld
ld
ld
                                                                                                                                                                                                                                      ; store X position before a jump
                                                                                                                                                                                                                                       ; store Y position before a jump
                                                                                               call
                                                                                               call
dec
jp
ld
                                                                                                                     sub_0_241F
d
NZ, loc_0_1BF2
                                                                                                                     0x10(ix), #0
0x11(ix), #0x80; 'Ç'
7, 7(ix)
                                                                                                                                                                                                                                       ; h-flip sprite
 1BD8
                                                                                                                                                                                                                                      ; CODE XREF: sub 0 1AC3+13F-i
 1 RD8
                                                loc_0_1BD8:
 1BD8 3A 20 62
1BDB 3D
1BDC CA EC 1B
                                                                                              ld
dec
jp
                                                                                                                     a, (unk_0_6220)
                                                                                                                     a
Z, loc_0_1BEC
                                                                                              call
ld
ld
 1BDF CD 07 24
1BE2 DD 74 12
1BE5 DD 75 13
1BE8 DD 36 14 00
                                                                                                                     sub_0_2407

0x12(ix), h

0x13(ix), 1
                                                                                               ld
                                                                                                                     0x14(ix), #0
1BEC
1BEC
1BEC CD 9C 23
1BEF C3 05 1C
                                                 loc_0_1BEC:
                                                                                                                                                                                                                                      ; CODE XREF: sub_0_1AC3+119 j
                                                                                               call
                                                                                                                     sub_0_239C
                                                                                               qį
                                                                                                                     loc_0_1C05
 1BF2
1BF2
1BF2
1BF2
1BF2 1D
                                                                                                                                                                                                                                       ; CODE XREF: sub_0_1AC3+106 j
                                                 loc 0 1BF2:
 1BF2 1D

1BF3 C2 05 1C

1BF6 DD 36 10 FF

1BFA DD 36 11 80

1BFE DD CB 07 BE

1C02 C3 D8 1B

1C05
                                                                                                                     NZ, loc_0_1C05
0x10(ix), #0xFF
0x11(ix), #0x80; 'C'
7, 7(ix)
                                                                                               ld
                                                                                               res
                                                                                                                                                                                                                                       ; un-hflip sprite
                                                                                                                     loc_0_1BD8
                                                                                               jp
 1C05
 1C05
1C05 CD 1C 2B
1C05
                                                                                                                                                                                                                                       ; CODE XREF: sub_0_1AC3+12C<sup>†</sup>j; sub_0_1AC3+130<sup>†</sup>j
                                                loc_0_1C05:
                                                                                               call
                                                                                                                     sub_0_2B1C
 1C08 3D
                                                                                              dec
jp
ld
                                                                                                                    a
Z, loc_0_1C3A
a, (unk_0_621F)
                                                                                                                                                                                                                                       ; are we jumping?
 1C00 3D
1C09 CA 3A 1C
1C0C 3A 1F 62
1C0F 3D
1COF 3D
1C10 CA 76 1C
1C13 3A 14 62
1C16 D6 14
1C18 C2 33 1C
1C1B 3E 01
1C1D 32 1F 62
1C20 CD 53 28
                                                                                              dec
                                                                                              jp
ld
sub
                                                                                                                     Z, loc_0_1C76
                                                                                                                      a, (unk_0_6214)
#0x14
                                                                                                                     NZ, loc_0_1C33
a, #1
                                                                                               jp
ld
                                                                                                                    a, #1
(unk_0_621F), a
sub_0_2853
                                                                                                                                                                                                                                       ; peak of the jump
                                                                                              ld
call
                                                                                                                                                                                                                                       ; check for bonus points?
  1C23 A7
1C24 CA A6 1D
1C27 32 42 63
1C2A 3E 01
                                                                                                                                                                                                                                       ; any bonus points? ; no, exit
                                                                                               and
                                                                                                                     a
Z, loc_0_1DA6
                                                                                               jp
ld
ld
                                                                                                                      (unk_0_6342), a
                                                                                                                                                                                                                                       ; register bonus
                                                                                                                     a, #1
(unk_0_6340), a
1C2A 3E 01
1C2C 32 40 63
1C2F 32 25 62
1C32 00
1C33
                                                                                               ld
                                                                                              ld
nop
                                                                                                                      (unk_0_6225), a
 1C33
1C33 3C
                                                 loc_0_1C33:
                                                                                                                                                                                                                                      ; CODE XREF: sub 0 1AC3+155<sup>†</sup> ;
                                                                                              inc
 1C34 CC 54 29
1C37 C3 A6 1D
                                                                                               call
                                                                                                                     Z, sub_0_2954
loc_0_1DA6
                                                                                               qį
 1C3A
 1C3A
1C3A
1C3A 05
                                                 loc_0_1C3A:
                                                                                                                                                                                                                                     ; CODE XREF: sub_0_1AC3+146^j
 1C3A 05
1C3B CA 4F 1C
1C3E 3C
1C3F 32 1F 62
1C42 AF
1C43 21 10 62
1C46 06 05
                                                                                              jp
inc
ld
                                                                                                                     Z, loc_0_1C4F
                                                                                                                     (unk_0_621F), a
                                                                                               xor
                                                                                                                     hl, #0x6210
b, #5
  1C48
1C48
                                                loc_0_1C48:
                                                                                                                                                                                                                                     ; CODE XREF: sub 0 1AC3+187-j
 1C48 77
1C49 2C
1C4A 10 FC
                                                                                               ld
                                                                                                                      (hl), a
                                                                                                                     loc_0_1C48
                                                                                              djnz
 1C4C C3 A6 1D
1C4F
                                                                                                                     loc_0_1DA6
 1C4F
1C4F
                                                 loc 0 1C4F:
                                                                                                                                                                                                                                      ; CODE XREF: sub 0 1AC3+1781i
(mario_jumping), a
a, (unk_0_6220)
#1
                                                                                               xor
                                                                                                                      (mario alive flag), a
                                                                                               ld
                                                                                                                                                                                                                                       ; set whether mario survives a jump
                                                                                                                     hl, #mario_flipy_sprite_tile
a, (hl)
#0x80; 'C'
                                                                                              ld
ld
                                                                                               and
                                                                                               or
                                                                                                                      #0xF
                                                                                                                                                                                                                                      ; mario landing character
 1C62 77
1C63 3E 04
1C65 32 1E 62
1C68 AF
                                                                                               ld
ld
                                                                                                                     (hl), a
a, #4
```

(unk_0_621E), a

(unk_0_621F), a a, (unk_0_6225) a

; CODE XREF: sub_0_1AC3+14D^j

Z. sub 0 1D95

ld xor

ld ld

ded

loc_0_1C76:

call

32 1F 62 3A 25 62 3D

1C70 CC 95 1D 1C73 C3 A6 1D 1C73 C

1C6F

; CODE XREF: sub_0_1AC3+272[†]j
; sub_0_1AC3+278[†]j

sub

loc 0 1D3F:

1D3B CA 3F 1D 1D3E 05 1D3F

1D3F 3E 80

#4

Z, loc_0_1D3F

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                                                                                                                                   a, #0x80 ; 'C'
hl, #mario_flipy_sprite_tile
(hl)
#0x80 ; 'C'
b
                                                                                                          ld
1D3F
1D41 21 07 62
1D44 A6
1D45 EE 80
1D47 B0
1D48 77
                                                                                                          ld
                                                                                                          and
xor
                                                                                                                                                                                                                                                                    ; hflip mario
                                                                                                          or
                                                                                                                                    (hl), a
                                                                                                          ld
1D48 77

1D49

1D49

1D49 3E 01

1D4B 32 15 62

1D4E C3 A6 1D

1D51

1D51
                                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_1AC3+2A1|j; flag mario climbing a ladder
                                                       loc_0_1D49:
                                                                                                          ld
                                                                                                                                     (mario_climbing), a
                                                                                                          ld
                                                                                                                                    loc_0_1DA6
1D51
1D51 2D
1D52 2D
1D53 7E
                                                      loc_0_1D51:
                                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_1AC3+25C<sup>†</sup> j
                                                                                                          dec
dec
ld
                                                                                                                                            (hl)
                                                                                                                                    a,
#3
1D53 7E

1D54 F6 03

1D56 CB 97

1D58 77

1D59 3A 24 62

1D5C EE 01

1D5E 32 24 62

1D61 CC 8F 1D

1D64 C3 49 1D
                                                                                                          or
res
ld
ld
                                                                                                                                    2, a (hl),
                                                                                                                                     a, (unk_0_6224)
#1
                                                                                                          xor
ld
call
                                                                                                                                   .._0_6224), a
Z, sub_0_1D8F
loc_0_1D49
                                                                                                          jp
1D64 C5 49
1D67
1D67
1D67
1D67 3E 06
                                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_1AC3+266^{\dagger} j ; sub_0_1AC3+26B^{\dagger} j ; mario climbing character
                                                      loc 0 1D67:
1D67 3E 06
1D67
1D69 32 07 62
1D6C AF
1D6D 32 19 62
1D70 32 15 62
1D73 C3 A6 1D
                                                                                                          ld
ld
                                                                                                                                    a, #6
(mario_flipy_sprite_tile), a
                                                                                                          xor
                                                                                                                                    (unk_0_6219), a (mario_climbing), a loc_0_1DA6
                                                                                                          ld
ld
                                                                                                                                                                                                                                                                    ; flaf not climbing a ladder
                                                                                                          jр
1D76

1D76

1D76 3A 1A 62

1D79 A7

1D7A CA 8A 1D

1D7D 32 19 62

1D80 3A 1C 62

1D83 D6 13

1D85 21 05 62

1D88 BE

1D89 D0
                                                        loc_0_1D76:
                                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_1AC3+244↑j
                                                                                                                                   a, (unk_0_621A)
                                                                                                          ld
                                                                                                          and
                                                                                                                                    Z, loc_0_1D8A
(unk_0_6219),
                                                                                                          jp
ld
                                                                                                                                    a, (unk_0_621C)
#0x13
                                                                                                          ld
                                                                                                          sub
                                                                                                          ld
cp
                                                                                                                                   hl, #mario_x_coord
(hl)
 1D89 D0
1D8A
                                                                                                          ret
                                                                                                                                    NC
 1D8A
1D8A 21 OF 62
                                                       loc_0_1D8A:
                                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_1AC3+233<sup>†</sup>j; sub_0_1AC3+2B7<sup>†</sup>j
 1D8A
                                                                                                          ld
                                                                                                                                   hl, #unk_0_620F
 1D8D 35
1D8E C9
                                                                                                          dec
ret
                                                                                                                                     (h1)
                                                       ; End of function sub_0_1AC3
 1D8E
 1D8E
 1D8F
1D8F
1D8F
1D8F
                                                                                                        SUBROUTINE
1D8F
1D8F
1D8F 3E 03
                                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_1AC3+204^{\uparrow}p ; sub_0_1AC3+29E^{\uparrow}p ; tmr=3
                                                        sub_0_1D8F:
                                                                                                          ld
 1D8F
                                                                                                                                    a, #3
(digital_snd_tmr_walk), a
               32 80 60
                                                                                                          ld
 1D94 C9
1D94
                                                       ret
; End of function sub_0_1D8F
 1D94
 1D95
                                                                                                         SUBROUTINE
 1D95
1D95
1D95 32 25 62
1D95
                                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_1A33+86\uparrow p; sub_0_1AC3+1AD\uparrow p
                                                       sub_0_1D95:
                                                                                                                                    (unk_0_6225), a
                                                                                                          ld
1D95 | 1D98 | 3A | 27 | 62 | 1D98 | 3D | | 1D9C | C8 | 1D9D | 21 | 8A | 60 | 1DA2 | 2C | 1DA3 | 36 | 03 | 1DA5 | C9 | | 1DA5 | C
                                                                                                                                    a, (level_type)
                                                                                                          ld
dec
ret
ld
                                                                                                                                   hl, #unk_0_608A
(hl), #0xD
                                                                                                          ld
inc
ld
                                                                                                          ret
 1DA5
1DA5
1DA6
                                                        ; End of function sub_0_1D95
 1DA6
1DA6

1DA6

1DA6

21 4C 69

1DA6

1DA9 3A 03 62

1DAC 77

1DAD 3A 07 62

1DB0 2C

1DB1 77
                                                       loc_0_1DA6:
                                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_1AC3+A8<sup>†</sup>j; sub_0_1AC3+161<sup>†</sup>j ...
                                                                                                                                   hl, #soft sprite ram+0x4C
                                                                                                          ld
ld
                                                                                                                                              (mario_y_coord)
                                                                                                                                   a, (mario_flipy_sprite_tile)
1
                                                                                                          ld
ld
                                                                                                          inc
ld
ld
inc
ld
1DB1 77
1DB2 3A 08 62
1DB5 2C
1DB6 77
                                                                                                                                    (hl),
                                                                                                                                    a, (mario_flipx_colour)
l
(hl), a
                                                                                                                                    a, (mario_x_coord)
1DB7 3A 05 62
1DBA 2C
1DBB 77
                                                                                                          ld
inc
ld
                                                                                                                                    (hl), a
 1DBC C9
                                                                                                          ret
 1DBD
1DBD
1DBD
                                                                                                          SUBROUTINE
1DBD
1DBD
1DBD 3A 40 63
```

sub_0_1DBD:

ld

rst

.dw ret .dw loc 0 1DC9 .dw loc_0_1E4A .db 0; .db 0;

a, (10x28

(unk_0_6340)

1DBD 3A 40 1DBD 1DC0 EF 1DC0 1DC1 49 1E 1DC3 C9 1D 1DC5 4A 1E 1DC7 00 1DC8 00 1DC9

; CODE XREF: 0000:127C \uparrow p; 0000:1641 \uparrow p ...

; go!

```
Page: 44
```

```
; DATA XREF: sub_0_1DBD+6↑o
                             loc_0_1DC9:
1DC9 3E 40
                                                                            #0x40
1DC9 3E 40

1DCB 32 41 63

1DCE 3E 02

1DD0 32 40 63

1DD3 3A 42 63

1DD6 1F

1DD7 DA 70 3E

1DDA 1F
                                                         ld
ld
ld
                                                                      (unk_0_6341), a
a, #2
(unk_0_6340), a
                                                                      a, (unk_0_6342)
                                                         ld
                                                         rra
jp
rra
                                                                       C, loc_0_3E70
1DDB DA 00 1E
                                                         jp
rra
jp
ld
                                                                      C, loc_0_1E00
1DDB DA 00 1E
1DDE 1F
1DDF DA F5 1D
1DE2 21 85 60
1DE5 36 03
1DE7 3A 29 62
1DEA 3D
1DEB CA 00 1E
                                                                      C, loc_0_1DF5
hl, #digital_snd_tmr_barrel_jump_priz
(hl), #3
                                                         ld
ld
dec
jp
dec
                                                                                                                                           ; tmr=3
                                                                       a, (level)
                                                                       a
Z, loc_0_1E00
1DEE 3D
1DEF CA 08 1E
1DF2 C3 10 1E
1DF5
                                                                      Z, award_500_pts
award_800_pts
                                                         jp
                                                         jp
1DF5
1DF5
1DF5
1DF5 3A 18 60
                             loc_0_1DF5:
                                                                                                                                            ; CODE XREF: sub_0_1DBD+22<sup>†</sup> j
                                                         ld
                                                                      a, (random no)
                                                                                                                                            ; 50% chance for 500 pts
1DF8 1F
                                                         rra
1DF9 DA 08 1E
1DFC 1F
                                                                                                                                            ; award 500 pts
; 25% chance for 800 pts
; award 800 pts
                                                                      C, award_500_pts
                                                         jp
rra
1DFD DA 10 1E
                                                                       C, award 800 pts
                                                         jр
1E00
1E00
1E00 06 7D
1E00
                                                                                                                                            ; CODE XREF: sub_0_1DBD+1E<sup>†</sup>j
; sub_0_1DBD+2E<sup>†</sup>j
; '300' sprite tile
; award 3 (300) points
                              loc_0_1E00:
                                                                       b, #0x7D; '}'
                                                         ld
1E02 11 03 00
1E05 C3 15 1E
1E08
                                                         1d
                                                         jp
                                                                       award_points
1E08
1E08
1E08 06 7E
1E08
                             award_500_pts:
                                                                                                                                            ; CODE XREF: sub_0_1DBD+32 j
                                                                                                                                            ; sub_0_1DBD+3C↑;
; '500' sprite tile
; award 5 (500) points
                                                                       b, #0x7E ; '~'
                                                         ld
1EU8
1EOA 11 05 00
1EOD C3 15 1E
1E10
1E10
                                                         ld
                                                                       de.
                                                                       award_points
1E10
1E10 06 7F
1E10
                                                                                                                                            ; CODE XREF: sub_0_1DBD+35<sup>†</sup>j
                             award_800_pts:
                                                                                                                                            ; sub_0_1DBD+40|j;; '800' sprite tile; add_bonus_and_update_high_score (800)
                                                                       b, #0x7F ; ' '
1E12 11 08 00
1E15
                                                         ld
                                                                       de, #8
                                                                                                                                               CODE XREF: sub_0_1DBD+481j sub_0_1DBD+501j schedule award points
1E15
1E15
1E15 CD 9F 30
                             award_points:
                                                         call
                                                                       queue fq vector fn
1E15
                                                                       hl, (unk
a, (hl)
(hl), #0
                                                                                                                                           ; ptr x position
; prize x position
; erase prize
; go to y position
                                                         ld
ld
1E18 2A 43 63
                                                                              (unk_0_6343)
        7E
36 00
                                                         ld
1E1E 2C
1E1F 2C
1E20 2C
1E21 4E
                                                         inc
inc
                                                                           (hl)
                                                                                                                                            ; get y position
; program award sprite
                                                         ld
1E22 C3 36 1E
1E25
1E25 11 01 00
1E28
                                                                       loc_0_1E36
                                                         jр
                                                         ld
                                                                       de, #1
                                                                                                                                            ; add_bonus_and_update_high_score (100)
                                                                                                                                            ; CODE XREF: 0000:3E76|j
1E28
                             loc_0_1E28:
1E28 CD 9F 30
1E28
                                                                                                                                            ; 0000:3E7E|j ...
; schedule award points
                                                         call
                                                                       queue_fg_vector_fn
1E28
1E2B 3A 05 62
1E2E C6 14
1E30 4F
1E31 3A 03 62
1E34 00
1E35 00
1E36
1E36 21 30 6A
                                                                      a, (mario_x_coord)
a, #0x14
                                                         ld
                                                         add
                                                         ld
ld
                                                                       a, (mario_y_coord)
                                                         nop
                                                                                                                                            ; CODE XREF: sub_0_1DBD+65<sup>†</sup>j
                             loc_0_1E36:
1E36 21 30 6A
1E39 77
1E3A 2C
1E3B 70
                                                         1d
                                                                      hl, \#soft\_sprite\_ram+0x130
                                                                                                                                            ; add bonus points sprite to display
                                                                       (hl), a
                                                         ld
                                                         inc
ld
                                                                       (hl), b
1E3B 70
1E3C 2C
1E3D 36 07
1E3F 2C
1E40 71
1E41 3E 05
1E43 F7
1E44 21 85 60
1E47 36 03
                                                         inc
ld
                                                                       (hl), #7
                                                         inc
                                                                       (hl),
a, #5
                                                         ld
                                                         ld
rst
                                                                                                                                            ; return if level bit not set
                                                                       hl, #digital_snd_tmr_barrel_jump_priz (hl), #3
                                                         ld
                                                         ld
                                                                                                                                            ; tmr=3
1E49
1E49
1E49 C9
1E49
                                                                                                                                            ; DATA XREF: sub_0_1DBD+4<sup>†</sup>o
                             ret
; End of function sub_0_1DBD
1E49
1E4A
1E4A
1E4A
                             loc 0 1E4A:
                                                                                                                                           ; DATA XREF: sub 0 1DBD+8 o
                                                                      hl, #unk_0_6341
(hl)
NZ
1E4A 21 41 63
1E4D 35
                                                         1d
1E4D 35
1E4E C0
                                                         dec
                                                         ret
1E4E CU
1E4F AF
1E50 32 30 6A
1E53 32 40 63
1E56 C9
1E57
1E57
                                                                       a
(soft_sprite_ram+0x130), a
(unk_0_6340), a
                                                         xor
                                                         ld
ld
                                                         ret
                                                        SUBROUTINE
1E57
1E57
1E57
                             sub_0_1E57:
                                                                                                                                            ; CODE XREF: 0000:19B9↑p
1E57
1E57 3A 27 62
1E5A CB 57
1E5C C2 80 1E
1E5F 1F
1E60 3A 05 62
1E63 DA 7A 1E
1E66 FE 51
1E68 DO
                                                         ld
                                                                       a, (level_type)
                                                         bit
                                                         jp
rra
ld
                                                                       NZ, loc 0 1E80
                                                                      a, (mario_x_coord)
C, loc_0_1E7A
#0x51; 'Q'
                                                         jp
cp
ret
ld
1E60 FE 51
1E68 D0
1E69 3A 03 62
1E6C 17
                                                                       a, (mario_y_coord)
                                                         rla
1E6D
```

```
loc_0_1E6D:
                                                                                                                                                                                                                                       ; CODE XREF: sub_0_1E57+26|j
                                                                                                                     a, #0
C, loc_0_1E74
a, #0x80; 'Ç
 1E6D 3E 00
                                                                                               ld
 1E6F DA 74 1E
1E72 3E 80
1E74
1E74
1E74 32 4D 69
1E77 C3 85 1E
1E7A
                                                 loc_0_1E74:
                                                                                                                                                                                                                                       ; CODE XREF: sub 0 1E57+181 j
                                                                                               14
                                                                                                                     (soft_sprite_ram+0x4D), a
loc_0_1E85
                                                                                               jp
 1E7A
1E7A
1E7A FE 31
1E7C D0
                                                 loc_0_1E7A:
                                                                                                                                                                                                                                       ; CODE XREF: sub_0_1E57+C j
                                                                                                                      #0x31 ; '1'
                                                                                               ср
                                                                                               ret
1E7D C3 6D 1E
1E80
1E80
                                                                                                                     loc 0 1E6D
                                                                                                                                                                                                                                       ; CODE XREF: sub_0_1E57+5 ) j
                                                 loc 0 1E80:
1E80 3A 90 62
1E83 A7
1E84 C0
                                                                                              ld
                                                                                                                     a, (unk_0_6290)
                                                                                                                     NZ
                                                                                              ret
1E85
1E85
1E85
1E87
                                                 loc_0_1E85:
                                                                                                                                                                                                                                       ; CODE XREF: sub_0_1E57+20 j
              3E 16
32 0A 60
                                                                                                                             #0x16
                                                                                               1d
                                                                                                                       (main_sequencer), a
                                                 pop hl ret; End of function sub_0_1E57
 1E8A E1
 1E8B C9
1E8B
 1E8B
1E8C
1E8C
1E8C
1E8C
                                                                                              SUBROUTINE
1E8C
1E8C 3A 50 63
1E8F A7
1E90 C8
                                                 sub_0_1E8C:
                                                                                                                                                                                                                                       ; CODE XREF: 0000:197D p
                                                                                               1d
                                                                                                                     a, (unk_0_6350)
                                                                                               and
                                                                                               ret
1E91 CD 96 1E
1E94 E1
1E95 C9
1E95
                                                                                               call
                                                                                                                      sub_0_1E96
                                                                                              pop
ret
                                                  ; End of function sub_0_1E8C
 1E95
1E96
1E96
                                                                                              SUBROUTINE
1E96
1E96
1E96
1E96 3A 45 63
1E99 EF
                                                 sub_0_1E96:
                                                                                                                                                                                                                                         ; CODE XREF: sub_0_1E8C+5<sup>p</sup>
                                                                                                                     a, (unk_0_6345)
0x28
                                                                                               ld
                                                                                               rst
                                                                                                                                                                                                                                        ; go!
1E99 EF
1E99
1E9A AO 1E
1E9C 09 1F
1E9E 23 1F
1EAO
1EAO
                                                                                               .dw loc_0_1EA0 .dw loc_0_1F09
                                                                                                 .dw loc_0_1F23
                                                                                                                                                                                                                                         ; Jump table
                                                                                                                                                                                                                                        ; DATA XREF: sub_0_1E96+4\u00e1o o ; hammer just hit something
1EA0
1EA0 3A 52 63
1EA3 FE 65
1EA5 21 B8 69
                                                loc_0_1EA0:
                                                                                                                     a, (unk_0_6352)
#0x65; 'e'
hl, #soft_sprite_ram+0xB8
                                                                                               ld
                                                                                               cp
ld
                                                                                                                                                                                                                                       ; process hammer hit effect (start)
1EAS 21 B6 69
1EA8 CA B4 1E
1EAB 21 D0 69
1EAE DA B4 1E
1EB1 21 80 69
1EB4
                                                                                              jp
ld
jp
ld
                                                                                                                    Z, loc_0_1EB4
hl, #soft_sprite_ram+0xD0
C, loc_0_1EB4
hl, #soft_sprite_ram+0x80
                                                                                                                                                                                                                                        ; fireball area in sprite ram
 1EB4
1EB4 DD 2A 51 63
                                                 loc_0_1EB4:
                                                                                                                                                                                                                                        ; CODE XREF: sub_0_1E96+12<sup>†</sup> j ; sub_0_1E96+18<sup>†</sup> j
                                                                                                                     ix, (unk_0_6351)
 1EB4
                                                                                               ld
1EB4
1EB8 16 00
1EBA 3A 53 63
1EBD 5F
1EBE 01 04 00
1EC1 3A 54 63
1EC4 A7
1EC5 CA CF 1E
                                                                                              ld
ld
ld
ld
                                                                                                                     a, (unk_0_6353)
e, a
                                                                                                                     bc, #4
a, (unk_0_6354)
                                                                                              ld
and
                                                                                                                     a
Z, loc_0_1ECF
                                                                                               jр
1EC8
1EC8 09
1EC9 DD 19
                                                loc_0_1EC8:
                                                                                                                                                                                                                                       ; CODE XREF: sub_0_1E96+36|j
                                                                                               add
                                                                                               add
                                                                                                                     ix. de
1ECB 3D
1ECC C2 C8 1E
1ECF
                                                                                                                     NZ, loc_0_1EC8
                                                                                               jр
                                                                                                                                                                                                                                       ; CODE XREF: sub 0 1E96+2F1i
 1ECF
                                                loc_0_1ECF:
1ECF DD 36 00 00
1ED3 DD 7E 15
1ED6 A7
1ED7 3E 02
                                                                                              ld
ld
                                                                                                                     0(ix), #0
a, 0x15(ix)
                                                                                               and
                                                                                                                     a, #2
Z, loc_0_1EDE
a, #4
                                                                                               1d
 1ED7 3E 02
1ED9 CA DE 1E
1EDC 3E 04
1EDE
1EDE
                                                                                                                                                                                                                                       ; CODE XREF: sub 0 1E96+431 j
                                                loc 0 1EDE:
1EDE 1EDE 32 42 63 1EE1 01 2C 6A 1EE5 36 00 1EE7 02 1EE8 0C 1EE9 2C 1EEC 02 1EEC 0C 1EC 0C 1E
                                                                                                                     (unk_0_6342), a
bc, #soft_sprite_ram+0x12C
a, (h1)
                                                                                               ld
ld
                                                                                                                    a, (hl)
(hl), #0
(bc), a
                                                                                              ld
ld
inc
inc
                                                                                                                                                                                                                                       ; flash sprite x coord
                                                                                                                             #0x60 ; '`'
                                                                                              ld
ld
                                                                                                                                                                                                                                       ; initial hit sprite character
; flash sprite character
                                                                                                                      (bc), a
                                                                                               inc
1EED 0C
1EEE 2C
1EEF 3E 0C
1EF1 02
1EF2 0C
1EF3 2C
1EF4 7E
1EF5 02
1EF6 21 45 63
1EF9 34
                                                                                               inc
                                                                                              ld
ld
                                                                                               inc
                                                                                               inc
                                                                                               ld
ld
                                                                                                                     a, (hl)
(bc), a
hl, #unk_0_6345
(hl)
                                                                                                                                                                                                                                       ; flash sprite y coord
                                                                                               ld
                                                                                               inc
inc
ld
 1EFA
1EFB
             2C
36 06
                                                                                                                      (hl), #6
 1EFD 2C
                                                                                               inc
                                                                                                                     (h1), #5
h1, #unk_0_608A
(h1), #6
 1EFE 36 05
1F00 21 8A 60
1F03 36 06
                                                                                               ld
ld
                                                                                               ld
1F05 2C
1F06 36 03
                                                                                                                     (hl), #3
```

```
1F08 C9
                                                             ret
; End of function sub_0_1E96
  1F08
 1F08
1F09
1F09
                                                                                                                                                                                                                                                                                                ; DATA XREF: sub_0_1E96+6†o; process hammer hit effect (middle)
                                                             loc_0_1F09:
  1F09
  1F09 21 46 63
1F0C 35
1F0D C0
                                                                                                                      ld
dec
ret
                                                                                                                                                 hl, #unk_0_6346
(hl)
                                                                                                                                                  NZ
1F0D CO
1F0E 36 06
1F10 2C
1F11 35
1F12 CA 1D 1F
1F15 21 2D 6A
1F18 7E
1F19 EE 01
1F1B 77
                                                                                                                      ld
inc
dec
                                                                                                                                                   (hl), #6
                                                                                                                                                   (hl)
                                                                                                                      jp
ld
ld
                                                                                                                                                  Z, loc_0_1F1D
                                                                                                                                                  hl, #0x6A2D
a, (hl)
#1
                                                                                                                                                                                                                                                                                                ; animate hit flash
                                                                                                                      xor
1F19 EE 01
1F1B 77
1F1C C9
1F1D
1F1D
1F1D
1F1D
1F1D
1F1D 36 04
1F1F 2D
1F20 2D
1F21 34
                                                                                                                      ld
                                                                                                                                                  (hl), a
                                                             loc_0_1F1D:
                                                                                                                                                                                                                                                                                                ; CODE XREF: 0000:1F12<sup>†</sup> †
                                                                                                                     ld
dec
dec
                                                                                                                                                  (hl), #4
(hl)
                                                                                                                      inc
                                                                                                                                               hl, #unk_0_6346
(hl)
NZ
                                                                                                                                                                                                                                                                                                ; DATA XREF: sub _0_1E96+81o
                                                             loc_0_1F23:
                                                                                                                      ld
dec
ret
                                                                                                                      ld
inc
dec
                                                                                                                                                   (hl), #0xC
1
                                                                                                                                                   (hl)
                                                                                                                                                  Z, loc_0_1F34
hl, #soft_sprite_ram+0x12D
                                                                                                                      jp
ld
inc
                                                                                                                                                                                                                                                                                                 ; animate hit flash
                                                                                                                      ret
                                                             loc_0_1F34:
                                                                                                                                                                                                                                                                                                 ; CODE XREF: 0000:1F2C<sup>†</sup>j
                                                                                                                                                  1
                                                                                                                      dec
dec
                                                                                                                      xor
ld
                                                                                                                                                   (unk_0_6350), a
                                                                                                                      ld
inc
ld
ld
                                                                                                                                                                                                                                                                                               ; stop effect process
                                                                                                                                                  unk_0_6340), a
hl, #soft_sprite_ram+0x12C
(unk_0_6343), hl
                                                                                                                      ld
                                                                                                                   SUBROUTINE
 1F46
1F46
1F46
1F46
1F46
1F46 3A 21 62
1F49 A7
1F4A C8
1F4B AF
1F4C 32 04 62
1F4F 32 06 62
1F55 32 10 62
1F55 32 10 62
1F58 32 11 62
1F58 32 12 62
1F58 32 13 62
1F61 32 16 62
1F64 3C
1F64 3C
1F68 32 16 62
1F68 32 06 62
1F68 32 07
1F71 C9
1F71 C9
1F71 1F72
                                                             sub_0_1F46:
                                                                                                                                                                                                                                                                                               ; CODE XREF: 0000:19A41p
                                                                                                                      ld
                                                                                                                                                  a, (unk_0_6221)
                                                                                                                      and
ret
xor
ld
ld
ld
ld
ld
ld
ld
                                                                                                                                                  (unk_0_6204), a
(unk_0_6206), a
(unk_0_6221), a
(unk_0_6210), a
                                                                                                                                                   (unk_0_6211), a
(unk_0_6212), a
(unk_0_6213), a
(unk_0_6214), a
                                                                                                                      inc
ld
ld
ld
                                                                                                                                                  (mario_jumping), a
(unk_0_621F), a
a, (mario_x_coord)
                                                                                                                      1d
                                                                                                                                                  (unk_0_620E), a
                                                             ret; End of function sub_0_1F46
1F71

1F72

1F72

1F72

1F72

1F72

1F72

1F72

1F75

3D

1F76

CO

1F77

DD

1F76

CO

1F77

DD

1F78

1 20

1F78

1 20

1F78

1 20

1 30

1 40

1 50

1 50

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                                                                                                                 SUBROUTINE
                                                              sub_0_1F72:
                                                                                                                                                                                                                                                                                               ; CODE XREF: 0000:19831p
                                                                                                                                                  a, (level_type)
                                                                                                                      dec
                                                                                                                                                  a
NZ
                                                                                                                      ret
                                                                                                                                                  ix, #unk_0_6700
hl, #soft_sprite_ram+0x80
de, #0x20;
                                                                                                                      ld
ld
                                                                                                                      ld
ld
                                                                                                                                                  de, #0xA
                                                             loc_0_1F83:
                                                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_1F72+1E|j
                                                                                                                      ld
                                                                                                                                                  a, 0(ix)
                                                                                                                      dec
jp
inc
inc
 1F86 3D
1F87 CA 93 1F
1F8A 2C
1F8B 2C
                                                                                                                                                  a
Z, loc_0_1F93
 1F8C
1F8D
1F8D
                  2C
                                                                                                                      inc
                                                                                                                                                  1
                                                            loc_0_1F8D:
                                                                                                                                                                                                                                                                                               ; CODE XREF: 0000:21CE|j
1F8D 2C
1F8E DD 19
1F90 10 F1
1F92 C9
1F93
1F93
1F93 DD 7E 01
1F96 3D
1F97 CA EC 20
1F9A DD 7E 02
1F9D 1F
  1F8D
                                                                                                                      inc
                                                                                                                      add
djnz
                                                                                                                                                  ix, de
loc_0_1F83
                                                                                                                      ret
                                                             loc_0_1F93:
                                                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_1F72+15<sup>†</sup>j
                                                                                                                      1d
                                                                                                                                                  a, 1(ix)
                                                                                                                      dec
                                                                                                                      jp
ld
                                                                                                                                                  Z, loc_0_20EC
a, 2(ix)
                                                                                                                      rra
  1F9E DA AC 1F
1FA1 1F
1FA2 DA E5 1F
                                                                                                                      jp
rra
                                                                                                                                                  C, loc_0_1FAC
                                                                                                                                                  C, loc_0_1FE5
                                                                                                                      jр
                                                                                                                       rra
  1FA6 DA EF 1F
                                                                                                                                                  C, loc_0_1FEF
```

```
1FA9 C3 53 20
                                                                                 loc_0_2053
                                                                  jр
 1FAC
1FAC
1FAC D9
                                  loc_0_1FAC:
                                                                                                                                                                ; CODE XREF: sub_0_1F72+2C<sup>†</sup>j
                                                                                 5(ix)
a, 0x17(ix)
5(ix)
NZ, loc_0_1FCE
a, 0x15(ix)
 1FAC D9
1FAD DD 34 05
1FB0 DD 7E 17
1FB3 DD BE 05
1FB6 C2 CE 1F
                                                                  inc
                                                                  ld
                                                                  СБ
                                                                  jp
ld
1FB6 C2 CE 1F
1FB9 DD 7E 15
1FBC 07
1FBD 07
1FBE C6 15
1FC0 DD 77 07
1FC3 DD 7E 02
1FC6 EE 07
1FC8 DD 77 02
                                                                  rlca
rlca
add
                                                                                 a, #0x15
7(ix), a
a, 2(ix)
#7
2(ix), a
                                                                                                                                                               ; switch downwards (sideways) barrel to rolling barrel
                                                                  ld
ld
                                                                  xor
                                                                  ld
 1FCB C3 BA 21
1FCE
1FCE
                                                                  jp
                                                                                  loc_0_21BA
 1FCE
1FCE DD 7E 0F
1FCE
1FD1 3D
                                                                                                                                                                 ; CODE XREF: sub 0 1F72+441 i
                                  loc_0_1FCE:
                                                                                                                                                                 ; sub_0_1F72+199|j
                                                                  ld
                                                                                  a, 0xF(ix)
                                                                  dec
jp
ld
xor
 1FD1 3D
1FD2 C2 DF 1F
1FD5 DD 7E 07
1FD8 EE 01
1FDA DD 77 07
                                                                                 NZ, loc_0_1FDF
a, 7(ix)
#1
                                                                                                                                                                ; animate sideways barrel sprite
1FDA DD 77 07
1FDD 3E 04
1FDF
1FDF
1FDF DD 77 0F
                                                                                  7(ix), a
                                                                  ld
                                                                  14
                                  loc_0_1FDF:
                                                                                                                                                                ; CODE XREF: sub_0_1F72+60 j
                                                                                  0xF(ix)
                                                                  ld
 1FE2 C3 BA 21
1FE5
1FE5
1FE5
                                                                  jp
                                                                                  loc_0_21BA
                                                                                                                                                                ; CODE XREF: sub_0_1F72+30 | j
                                  loc 0 1FE5:
1FE5
1FE5 D9
1FE6 01 00 01
1FE9 DD 34 03
1FEC C3 F6 1F
1FEF
                                                                  exx
ld
inc
                                                                                 bc, #0x100
3(ix)
                                                                                  loc_0_1FF6
                                                                  jр
1FEF
1FEF
1FEF D9
1FFO 01 04 FF
1FF3 DD 35 03
                                                                                                                                                                ; CODE XREF: sub_0_1F72+34 j
                                  loc 0 1FEF:
                                                                  exx
                                                                                 bc, #0xFF04
3(ix)
 1FF6
 1886
                                  loc 0 1FF6:
                                                                                                                                                                ; CODE XREF: sub 0 1F72+7A1i
 1FF6
1FF6 DD 66 03
1FF9 DD 6E 05
1FFC 7C
1FFD E6 07
1FFF FE 03
2001 CA 5F 21
                                                                 ld
ld
                                                                                 h, 3(ix)
1, 5(ix)
                                                                  ld
                                                                                  a, h
#7
                                                                  and
cp
                                                                  jp
dec
dec
dec
call
                                                                                  Z, loc_0_215F
 2004 2D
2005 2D
2006 2D
2007 CD 33 23
                                                                                  sub_0_2333
2007 CD 33 23
200A 2C
200B 2C
200C 2C
200D 7D
200E DD 77 05
                                                                  inc
inc
inc
ld
                                                                                 a, 1
5(ix), a
sub_0_23DE
sub_0_24B4
                                                                  ld
 200E DD 77 05
2011 CD DE 23
2014 CD B4 24
2017 DD 7E 03
201A FE 1C
201C DA 2F 20
201F FE E4
                                                                  call
                                                                  ld
                                                                                  a, 3(ix)
#0x1C
                                                                  cp
jp
                                                                                        loc_0_202F
                                                                                 C, loc_0_202F
#0xE4; 'õ'
C, loc_0_21BA
201F FE E4
2021 DA BA 21
2024 AF
2025 DD 77 10
2028 DD 36 11 60
202C C3 38 20
202F
202F
202F
                                                                  cp
jp
xor
ld
                                                                                 0x10(ix), a
0x11(ix), #0x60; '`'
loc_0_2038
                                                                  ld
                                                                  jp
                                                                                                                                                                ; CODE XREF: sub_0_1F72+AA^j
                                 loc 0 202F:
202F AF 2030 DD 36 10 FF 2034 DD 36 11 A0 2038 2038 DD 36 12 FF 203C DD 36 13 F0 2040 DP 77 14
                                                                  xor
                                                                                 a
0x10(ix), #0xFF
0x11(ix), #0xA0 ; 'á'
                                                                 ld
ld
                                 loc_0_2038:
                                                                                                                                                                ; CODE XREF: sub_0_1F72+BA j
2038 DD 36 12 FF 203C DD 36 13 FO 2040 DD 77 14 2043 DD 77 06 2046 DD 77 06 204C DD 36 02 08 2050 C3 BA 21 2053 2053
                                                                                 0x12(ix), #0xFF
0x13(ix), #0xF0; '-'
0x14(ix), a
0xE(ix), a
4(ix), a
                                                                  ld
ld
                                                                  ld
                                                                  ld
ld
                                                                  ld
ld
                                                                                  6(ix), a
2(ix), #8
                                                                                  loc_0_21BA
loc_0_2053:
                                                                                                                                                                ; CODE XREF: sub 0 1F72+371 j
                                                                 exx
call
                                                                                 sub_0_239C
sub_0_2A2F
                                                                  call
                                                                  and
jp
ld
                                                                                 NZ, loc_0_2083
a, 3(ix)
a, #8
                                                                  add
                                                                  cp
jp
call
                                                                                  #0x10
                                                                                 C, loc_0_2079
sub_0_24B4
                                                                                  a, 0x10(ix)
#1
                                                                  ld
and
rlca
                                                                  rlca
 2072 4F
2073 CD DE 23
2076 C3 BA 21
                                                                  ld
                                                                  call
                                                                                  sub_0_23DE
loc_0_21BA
                                                                  jр
 2079
2079 AF
                                  loc_0_2079:
                                                                                                                                                                ; CODE XREF: sub_0_1F72+F3 j
                                                                  xor
 207A DD 77 00
207D DD 77 03
                                                                                 0(ix), a
3(ix), a
                                                                  1d
```

```
2080 C3 BA 21
                                                                                   loc_0_21BA
                                                                    jр
 2083
2083
2083
2083
2083 DD 34 OE
2086 DD 7E OE
2089 3D
                                   loc_0_2083:
                                                                                                                                                                    ; CODE XREF: sub_0_1F72+E9 j
                                                                                   a, 0xE(ix)
a
Z, loc_0_20A2
                                                                    ld
 208A CA A2 20
208D 3D
                                                                   jp
dec
208D 3D 208E CA C3 20 2091 DD 7E 10 2094 3D 2095 3E 04 2097 C2 9C 20 209C 209C
                                                                                   a
Z, loc_0_20C3
a, 0x10(ix)
                                                                   jp
ld
dec
                                                                                    NZ, loc_0_209C
 209A
209C
209C
                                   loc 0 209C:
                                                                                                                                                                     ; CODE XREF: sub 0 1F72+125 i
209C DD 77 02
209F C3 BA 21
20A2
                                                                                   2(ix), a
loc_0_21BA
                                                                   1d
                                                                    jр
 20A2
20A2
20A2 DD 7E 15
20A5 A7
20A6 C2 B5 20
                                   loc_0_20A2:
                                                                                                                                                                     ; CODE XREF: sub_0_1F72+118 j
                                                                    ld
                                                                                   a, 0x15(ix)
                                                                    and
                                                                    jp
ld
ld
                                                                                    NZ. loc 0 20B5
 20A9 21 05 62
20AC DD 7E 05
20AF D6 16
20B1 BE
                                                                                   hl, #mario_x_coord
a, 5(ix)
#0x16
                                                                                                                                                                    ; check har far mario has fallen when jumping
                                                                    sub
                                                                   cp
jp
                                                                                    (h1)
20B1 BE
20B2 D2 C3 20
20B5
20B5
                                                                                    NC, loc_0_20C3
                                  loc_0_20B5:
                                                                                                                                                                     ; CODE XREF: sub_0_1F72+134↑j
20B5  
20B5   DD 7E 10  
20B8 A7  
20B9 C2 E1 20  
20BC DD 77 11  
20BF DD 36 10 FF  
20C3   20C3   CD 07 24
                                                                   ld
and
                                                                                   a, 0x10(ix)
                                                                                   a
NZ, loc_0_20E1
0x11(ix), a
0x10(ix), #0xFF
                                                                    jp
ld
                                                                    ld
                                  loc_0_20C3:
                                                                                                                                                                     ; CODE XREF: sub_0_1F72+11C<sup>†</sup>j; sub_0_1F72+140<sup>†</sup>j ...
 20C3 CD 07 24
20C3 CD 07 24
20C3
20C6 CB 3C
20C8 CB 1D
20CA CB 3C
20CC CB 1D
20CE DD 74 12
20D1 DD 75 13
20D4 AF
20D5 DD 77 14
20D8 DD 77 04
20D8 DD 77 04
20DB DD 77 04
                                                                   call
srl
                                                                                    sub_0_2407
                                                                    rr
                                                                    srl
                                                                                    h
                                                                    rr
ld
                                                                    ld
                                                                                    0x13(ix), 1
                                                                   xor
ld
ld
                                                                                    0x14(ix), a
4(ix), a
6(ix), a
                                                                    ld
20DE C3 BA 21
20E1
20E1
                                                                                    loc_0_21BA
                                   loc_0_20E1:
                                                                                                                                                                    ; CODE XREF: sub_0_1F72+147 j
 20E1
 20E1 DD 36 10 01
20E5 DD 36 11 00
20E9 C3 C3 20
                                                                                   0x10(ix), #1
0x11(ix), #0
loc_0_20C3
                                                                   1d
                                                                    ld
                                                                    jр
20EC
20EC
20EC
                                   loc_0_20EC:
                                                                                                                                                                     ; CODE XREF: sub_0_1F72+25 j
20EC D9
20ED CD 9C 23
20F0 7C
20F1 D6 1A
20F3 DD 46 19
20F6 B8
20F7 DA 04 21
20FA CD 2F 2A
20FD A7
                                                                   call
ld
sub
                                                                                    sub_0_239C
                                                                                   b, 0x19(ix)
                                                                    ld
                                                                   cp
jp
call
                                                                                    b
                                                                                   C, loc_0_2104
sub_0_2A2F
20FD A7
20FE C2 18 21
2101 CD B4 24
2104
                                                                    and
                                                                                   a
NZ, loc_0_2118
sub_0_24B4
                                                                   jp
call
2104
2104 DD 7E 03
2107 C6 08
2109 FE 10
                                   loc_0_2104:
                                                                                                                                                                    ; CODE XREF: sub 0 1F72+185 † j
                                                                   ld
add
                                                                                   a, 3(ix)
a, #8
#0x10
                                                                   cp
jp
xor
ld
2109 FE 10
210B D2 CE 1F
210E AF
210F DD 77 00
2112 DD 77 03
2115 C3 BA 21
2118
                                                                                    NC, loc_0_1FCE
                                                                                   a
0(ix), a
                                                                    ld
                                                                                    3(ix).
                                                                                   loc_0_21BA
                                                                                                                                                                    ; CODE XREF: sub 0 1F72+18C1 i
 2118
                                   loc_0_2118:
2118 DD 7E 05
211B FE E0
211D DA 46 21
2120 DD 7E 07
2123 E6 FC
2125 F6 01
2127 DD 77 07
                                                                                   a, 5(ix)

#0xE0; 'Ó'

C, loc_0_2146

a, 7(ix)

#0xFC; '3'
                                                                   ld
cp
                                                                    jp
ld
                                                                   and
or
ld
                                                                                                                                                                     ; switch falling (sideways) barrel to rolling bounce barrel
                                                                                    #1
7(ix), a
2127 DD 77 07
212A AF
212B DD 77 01
212E DD 77 01
213E DD 77 01
213E DD 77 11
213B DD 77 11
213B DD 77 12
213B DD 36 10 01
213F DD 36 00 01
2143 C3 53 21
2146
2146
2146
2146 CD 07 24
2149 CD CB 22
214C DD 7E 05
214F DD 77 19
2152 AF
                                                                   xor
ld
ld
ld
                                                                                   a
1(ix), a
                                                                                   2(ix), a
0x10(ix), #0xFF
                                                                   ld
ld
ld
                                                                                    0x11(ix), a

0x12(ix), a

0x13(ix), a

0x13(ix), #0xB0; '\'\'\'

0xE(ix), #1
                                                                    ld
                                                                                    loc_0_2153
                                                                                                                                                                     ; CODE XREF: sub_0_1F72+1AB j
                                   loc_0_2146:
                                                                   call
                                                                                    sub_0_2407
sub_0_22CB
                                                                    ld
                                                                                    a, 5(ix)
0x19(ix), a
                                                                    ld
 2152 AF
2153
                                                                   xor
                                   loc 0 2153:
                                                                                                                                                                    ; CODE XREF: sub 0 1F72+1D1↑j
 2153
 2153 DD 77 14
2156 DD 77 04
2159 DD 77 06
                                                                                   0x14(ix), a
4(ix), a
6(ix), a
                                                                    14
                                                                    ld
          C3 BA 21
                                                                    jp
                                                                                    loc 0 21BA
```

```
; CODE XREF: sub 0 1F72+8F1i
  215F
                                                       loc 0 215F:
215F 7D 215F 7D 2160 C6 05 2162 57 2163 7C 2164 01 15 00 2167 CD 6D 21 216A C3 BA 21 216A
                                                                                                                                    a, 1
a, #5
d, a
a, h
bc, #6
                                                                                                          1d
                                                                                                           add
ld
                                                                                                            1d
                                                                                                            14
                                                                                                                                                  #0x15
                                                                                                                                     sub_0_216D
                                                                                                            call
                                                                                                            jр
                                                                                                                                     loc_0_21BA
                                                        ; End of function sub_0_1F72
  216A
 216A
216D
216D
                                                                                                       SUBROUTINE
 216D
216D
216D
                                                        sub_0_216D:
                                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_1F72+1F5\p
216D CD 6E 23
2170 3D
2171 CO
2172 78
2173 D6 05
2175 DD 77 17
2178 3A 48 63
217B A7
217C CA B2 21
217F 3A 05 62
2182 D6 04
2184 BA
2185 D8
2186 3A 80 63
2189 1F
218A 3C
2189 1F
218A 3C
218B 47
218C 3A 18 60
218F 4F
218C 3A 18 60
218F 4F
218C 3A 18 60
218F 4F
2190 E6 03
2192 B8
  216D CD 6E 23
                                                                                                           call
                                                                                                                                     sub 0 236E
                                                                                                           dec
ret
ld
                                                                                                                                     NZ
                                                                                                                                    a, b
#5
                                                                                                            sub
                                                                                                                                     0x17(ix), a
a, (unk_0_6348)
                                                                                                            ld
ld
                                                                                                            and
                                                                                                                                     a
Z, loc_0_21B2
                                                                                                            jp
ld
sub
                                                                                                                                     _, roc_u_z1B2
a, (mario_x_coord)
#4
                                                                                                                                     d
                                                                                                            cp
ret
                                                                                                            ld
rra
                                                                                                                                     a, (unk_0_6380)
                                                                                                            inc
                                                                                                           ld
ld
ld
                                                                                                                                    b, a
a, (random_no)
c, a
#3
2190 E6 03
2192 B8
2193 D0
2194 21 10 60
2197 3A 03 62
219A BB
219B CA B2 21
219E D2 A9 21
21A1 CB 46
21A3 CA AE 21
21A6 C3 B2 21
21A9
                                                                                                            and
                                                                                                            cp
ret
ld
                                                                                                                                     NC
hl, #controller_in
                                                                                                                                    n1, #controller_in
a, (mario_y_coord)
e
z, loc_0_21B2
NC, loc_0_21A9
0, (h1)
z, loc_0_21AE
loc_0_21B2
                                                                                                            ld
                                                                                                            cp
                                                                                                            jp
bit
                                                                                                                                                                                                                                                                       ; right?
; no, skip
                                                                                                            jp
                                                                                                            jр
  21A9
  21A9
  21A9
21A9 CB 4E
                                                        loc_0_21A9:
                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_216D+31<sup>†</sup>j
; left?
                                                                                                                                     1, (hl)
NZ, loc_0_21B2
                                                                                                            bit
  21AB C2 B2 21
                                                                                                                                                                                                                                                                       ; yes, skip
                                                                                                           jр
                                                       loc_0_21AE:
                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_216D+36 j
                                                                                                           ld
  21AE
                                                                                                                                     a, c
#0x18
  21AF E6 18
                                                                                                            and
 21B1 C0
21B2
21B2
                                                                                                                                     NZ
                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_216D+F<sup>†</sup>j
                                                       loc_0_21B2:
 21B2 DD 34 07
21B2
21B5 DD CB 02 C6
                                                                                                                                                                                                                                                                       ; sub_0_216D+2E[j ...; sprite tile # ; switch rolling barrel to going-down-ladder barrel
                                                                                                           inc
set
                                                                                                                                     7(ix)
0, 2(ix)
  21B9 C9
                                                                                                            ret
                                                        ; End of function sub_0_216D
  21B9
  21BA
                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_1F72+59<sup>†</sup> j ; sub_0_1F72+70<sup>†</sup> j ...
                                                       loc_0_21BA:
  21 BA
  21BA D9
21BA
  21BB DD 7E 03
                                                                                                            ld
                                                                                                                                              3(ix)
                                                                                                                                                                                                                                                                       ; set sprite X
                                                                                                                                     (hl), a
l
a, 7(ix)
 21BE 77
21BF 2C
21CO DD 7E 07
                                                                                                           ld
inc
ld
21C3 77
21C4 2C
21C5 DD 7E 08
21C8 77
                                                                                                                                                                                                                                                                      ; set sprite tile #
                                                                                                            ld
inc
                                                                                                                                      (hl), a
                                                                                                                                     a, 8(ix)
(hl), a
                                                                                                            ld
                                                                                                                                                                                                                                                                       ; set sprite vflip & palette
                                                                                                            ld
                                                                                                            inc
ld
ld
  21C9
                                                                                                                                         . 5(ix)
  21CA DD 7E 05
21CD 77
21CE C3 8D 1F
                                                                                                                                     a, 5(ix)
(hl), a
loc_0_1F8D
                                                                                                                                                                                                                                                                       ; set sprite Y
                                                                                                            jр
 21CE C3 6D
21CE
21D1 80 FE
21D1
                                                                                                                                                                                                                                                                       ; DATA XREF: next_attract_action or in the control of the con
                                                        attract_mario_inputs:.dw 0xFE80
  21D3 01 C0
                                                                                                            .dw 0xC001
 21D3 01 C0
21D5 04 50
21D7 02 10
21D9 82 60
21DB 02 10
21DD 82 CA
21DF 01 10
21E1 81 FF
                                                                                                            .dw 0x5004
.dw 0x1002
                                                                                                            .dw 0x1002
.dw 0x6082
.dw 0x1002
.dw 0xCA82
.dw 0x1001
.dw 0xFF81
 21E3 02 38
21E5 01 80
21E7 02 FF
21E9 04 80
                                                                                                            .dw 0x3802
.dw 0x8001
.dw 0xFF02
.dw 0x8004
 21EB 04 60
21ED 80
21EE
                                                                                                             .dw
                                                                                                                        0x6004
                                                                                                            .db
                                                                                                      SUBROUTINE
  21EE
 21EE
21EE
21EE
                                                                                                                                                                                                                                                                       ; CODE XREF: 0000:19771p
                                                       next attract action:
21EE 21EE 11 D1 21 21F1 21 CC 63 21F4 7E 21F5 07 21F6 83 21F7 5F 21F8 1A
                                                                                                            ld
                                                                                                                                     de, #attract_mario_inputs
                                                                                                           ld
ld
                                                                                                                                     hl, #attract_movement_entry
a, (hl)
                                                                                                                                                                                                                                                                            get entry
                                                                                                                                                                                                                                                                      , get entry
; convert to word
; add to base
; ptr to entry
; lst byte of entry
; store simulated inputs
                                                                                                            rlca
                07
83
5F
1A
32 10 60
2C
7E
35
                                                                                                            add
                                                                                                                                     a, e
                                                                                                           ld
ld
                                                                                                                                     e, a
a, (de)
  21F9
21FC
21FD
                                                                                                                                      (controller_in), a
                                                                                                            ld
inc
                                                                                                                                     a, (hl) (hl)
                                                                                                            ld
                                                                                                                                                                                                                                                                       ; get movement timer
; done?
  21FE
                                                                                                            dec
  21FF A7
                                                                                                            and
                                                                                                                                     NZ
  2200 C0
                                                                                                                                                                                                                                                                       ; no, return
```

```
ptr 2nd byte of entry
get 2nd byte
store as timer
back to entry
next entry
                                                                                                                                         a, (de)
(hl), a
2202 1A
2203 77
2204 2D
2205 34
                                                                                                               ld
dec
inc
                                                                                                                                         (hl)
 2206 C9
                                                                                                                ret
; End of function next_attract_action
                                                                      SUBROUTINE
                                                         sub_0_2207:
                                                                                                                                                                                                                                                                                 ; CODE XREF: 0000:199B1p
                                                                                                                1d
                                                                                                                                                   #2
                                                                                                               rst
ld
                                                                                                                                                                                                                                                                                 ; return if level bit not set
                                                                                                                                          a, (gen_purpose_timer)
                                                                                                                rra
                                                                                                                                         hl, #unk_0_6280
a, (hl)
C, loc_0_2219
hl, #unk_0_6288
                                                                                                               ld
ld
                                                                                                                jp
ld
                                                                                                                ld
                                                                                                                                           a, (hl)
                                                        loc_0_2219:
                                                                                                                                                                                                                                                                                 ; CODE XREF: sub_0_2207+Bfj
                                                                                                              push
rst
daa
                                                                                                                                           0x28
                                                                                                                                           (loc_0_2259), hl
                                                                                                                ld
sbc
                                                                                                               ld
nop
nop
                                                                                                                                          (loc_0_22A2), hl
                                                                                                               nop
nop
pop
inc
dec
jp
dec
inc
(h1)
                                                                                                                                           NZ, loc_0_223A
                                                                                                                                           (h1)
                                                                                                               inc
inc
call
                                                                                                                                           sub_0_2243
                                                                                                                ld
                                                                                                                                           (unk_0_621A), a
                                                         loc_0_223A:
                                                                                                                                                                                                                                                                                 ; CODE XREF: sub_0_2207+23 j
                                                                                                               inc
call
                                                                                                                                           sub_0_2243
                                                                                                              xor
ld
ret
                                                                                                                                           (unk_0_621A), a
2242
2242
2243
2243
                                                          ; End of function sub_0_2207
                                                                                                            SUBROUTINE
2243
2243
2243
2243
2243 3A 05 62
2243
                                                          sub_0_2243:
                                                                                                                                                                                                                                                                                 ; CODE XREF: sub_0_2207+2A<sup>†</sup>p; sub_0_2207+34<sup>†</sup>p ...
2243 2248 FE 7A 2248 D2 57 22 2248 A3 16 62 224F C2 57 22 2252 3A 03 62 2255 BE 2256 C8 2257 2257 2257 E1 2258 C9 2258 2258
                                                                                                                                          a, (mario_x_coord)
#0x7A; 'z'
NC, loc_0_2257
                                                                                                                ld
                                                                                                                ср
                                                                                                               jp
ld
and
                                                                                                                                           a, (mario_jumping)
                                                                                                                jp
ld
                                                                                                                                          NZ, loc_0_2257
a, (mario_y_coord)
                                                                                                                                           a, (
(hl)
                                                                                                                cp
ret
                                                         loc_0_2257:
                                                                                                                                                                                                                                                                                  ; CODE XREF: sub_0_2243+51j
                                                                                                                                                                                                                                                                                  ; sub_0_2243+C<sup>†</sup> j
                                                                                                                ret
                                                          ; End of function sub_0_2243
2258 2259* 2259* 2259 2C 2258 2C 2255 2C 2255 2C 2255 2C 2266 3E 04 2266 3E 04 2266 2D 266 2D
                                                         loc 0 2259:
                                                                                                                                                                                                                                                                                 ; DATA XREF: sub 0 2207+15 w
                                                                                                                                         hl
1
1
                                                                                                                inc
                                                                                                                inc
                                                                                                                                           1
(hl)
                                                                                                                                         NZ #4
                                                                                                               ret
ld
ld
dec
inc
                                                                                                                                         a, #4
(hl), a
                                                                                                                                           l
(hl)
                                                                                                               call
ld
cp
jp
dec
dec
dec
                                                                                                                                          sub_0_22BD
a, #0x78;
(hl)
                                                                                                                                           NZ, loc_0_2275
                                                                                                                inc
                                                                                                                                           (hl)
                                                                                                               inc
inc
inc
                                                         loc_0_2275:
                                                                                                                                                                                                                                                                               ; CODE XREF: 0000:226B|j
                                                                                                               dec
call
ld
                                                                                                                                           sub 0 2243
                                                                                                                                           a, (mario_x_coord)
#0x68; 'h'
NC, loc_0_228A
                                                                                                                ср
                                                                                                                jр
 2281
2281
2281 21 05 62
2284 34
2285 CD CO 3F
2288 34
                                                          loc_0_2281:
                                                                                                                                                                                                                                                                                ; CODE XREF: 0000:228B j
                                                                                                                                          hl, #mario_x_coord (hl)
                                                                                                                ld
                                                                                                               inc
call
inc
                                                                                                                                           sub_0_3FC0
```

```
22CB 22CB 22CB 22CB 22CB 22CB 3A 48 63 22CE A7 22CF CA E1 22 22D2 3A 80 63 22D5 3D 22D6 EF 22D7 F6 22 22D9 F6 22 22D9 G3 23 22DD 03 23 22DD 13 23 22DD 13 23 22DD 13 23 22DD 13 23 22DD 23 22D
                                                                                                    sub_0_22CB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; CODE XREF: sub_0_1F72+1D7↑p
                                                                                                                                                                                                                                     a, (unk_0_6348)
                                                                                                                                                                                           ld
                                                                                                                                                                                           and
                                                                                                                                                                                                                                     Z, loc_0_22E1
a, (unk_0_6380)
                                                                                                                                                                                           dec
                                                                                                                                                                                                                                      0x28
                                                                                                                                                                                           rst
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; qo!
                                                                                                                                                                                          .dw loc_0_22F6
.dw loc_0_22F6
.dw loc_0_2303
.dw loc_0_2303
.dw loc_0_231A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; Jump table
22E1 3A 29 62
22E4 47
22E5 05
22E6 3E 01
22E8 CA T
                                                                                                     loc_0_22E1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_22CB+4^j
                                                                                                                                                                                                                                    a, (level)
b, a
                                                                                                                                                                                           ld
                                                                                                                                                                                           ld
                                                                                                                                                                                                                                    b,
a,
Z,
b
 22E6 3E 01
22E8 CA F9 22
22EB 05
22EC 3E B1
22EC AF9 22
22F1 3E E9
22F3 C3 F9 22
22F6
22F6
                                                                                                                                                                                           dec
                                                                                                                                                                                                                                                   loc_0_22F9
                                                                                                                                                                                           jp
dec
                                                                                                                                                                                          ld
jp
ld
                                                                                                                                                                                                                                      a, #0xB1; '
Z, loc_0_22F9
                                                                                                                                                                                                                                     loc_0_22F9
                                                                                                                                                                                           jp
       22F6
22F6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; DATA XREF: sub_0_22CB+C\u00f30
                                                                                                    loc 0 22F6:
       22F0
22F6 3A 18 60
22F6
22F9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; sub_0_22CB+E↑o
                                                                                                                                                                                                                                      a, (random_no)
   22F9
22F9 DD 77 11
22F9
22FC E6 01
22FE 3D
77 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: sub_0_22CB+1D<sup>†</sup>j; sub_0_22CB+23<sup>†</sup>j ...
                                                                                                    loc 0 22F9:
                                                                                                                                                                                                                                      0x11(ix), a
                                                                                                                                                                                           and
dec
                                                                                                                                                                                                                                      #1
       22FF DD 77 10
2302 C9
                                                                                                                                                                                          ld
ret
                                                                                                                                                                                                                                      0x10(ix), a
       2302
2302
2303
2303
                                                                                                    ; End of function sub_0_22CB
                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; DATA XREF: sub_0_22CB+10 \uparrow o; sub_0_22CB+12 \uparrow o
      2303
2303 3A 18 60
2303 2306 DD 77 11
2309 3A 03 62
230C DD BE 03
                                                                                                   loc_0_2303:
                                                                                                                                                                                                                                     a, (random_no)
0x11(ix), a
a, (mario_y_coord)
                                                                                                                                                                                          ld
ld
                                                                                                                                                                                           1d
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
230F 3E 01
2311 D2 16 23
2314 3D
2315 3D
2316
                                                            ld
                                                                          a, #1
NC, loc_0_2316
                                                            jp
dec
dec
2316
2316 DD 77 10
2319 C9
231A
                               loc_0_2316:
                                                                                                                                                  ; CODE XREF: 0000:2311<sup>†</sup> i
                                                            14
                                                                          0x10(ix), a
                                                            ret
loc_0_231A:
                                                                                                                                                  ; DATA XREF: sub_0_22CB+14 o
                                                                               (mario_y_coord)
                                                                          a, (ma
3(ix)
                                                            sub
                                                            1d
                                                                          c, #0xFF
C, loc_0_2326
                                                           jp
inc
                              loc_0_2326:
                                                                                                                                                  ; CODE XREF: 0000:23221j
                                                            rlca
                                                           rl
                                                            rlca
                                                           rl
ld
ld
                                                                          0x10(ix), c
                                                                          0x11(ix), a
                                                           ret
                                                           SUBROUTINE
                                                                                                                                                  ; CODE XREF: sub_0_1AC3+221\dagger p ; sub_0_1F72+95\dagger p ...
                               sub_0_2333:
                                                                         a, #0xF
h
b
Z, loc_0
                                                            ld
2333 A4
2335 A4
2336 05
2337 CA 42 23
233A FE 0F
233C D8
233D 06 FF
233F C3 47 23
2342
2342
2342
2342
2342
2344 D0
2345 06 01
                                                           and
dec
jp
                                                                               loc_0_2342
                                                           cp
ret
ld
                                                                          loc_0_2347
                                                            jр
                              loc_0_2342:
                                                                                                                                                  ; CODE XREF: sub_0_2333+4<sup>†</sup> j
                                                            ср
2344 D0

2345 06 01

2347 2347 3E F0

2349 BD 2344 CA 60 23

2349 BD 2354 CB 66 23

234F BD 2356 CA 66 23

2357 CB 67 2356 CA 5C 23

2359 2359 2359 90

2350 2354 CB 67

2355 CB 67

2356 CB 67

2356 CB 67

2358 CB 67

2358 CB 67

2358 CB 67
                                                            ret
                                                                          NC
                                                            ld
                                                                          b, #1
                              loc_0_2347:
                                                                                                                                                  ; CODE XREF: sub 0 2333+C1 j
                                                                          a, #0xF0; '-'
1
Z, loc_0_2360
                                                            14
                                                            ср
                                                            jp
1d
                                                                              #0x4C ; 'L
                                                            cp
jp
ld
                                                                          Z, loc_0_2366
                                                                          a,
5,
                                                            bit
                                                            jp
                                                                          Z, loc_0_235C
                                                                                                                                                  ; CODE XREF: sub_0_2333+2F | j
                               loc_0_2359:
                                                            sub
                                                                          b
                               loc_0_235A:
                                                                                                                                                  ; CODE XREF: sub_0_2333+2A|j
                                                            ld
                                                                          1, a
235A 6F
235B C9
235C
235C
235C
235C 80
235C 235D C3 5A 23
                                                           ret
                               loc_0_235C:
                                                                                                                                                  ; CODE XREF: sub_0_2333+23 j
                                                                                                                                                  ; sub_0_2333+38|j
                                                            add
                                                                          a, b
loc_0_235A
235D C3 5A 23
2360
2360
2360
2360 CB 7C
2362 C2 59 23
2365 C9
2366
2366
2366
2366 7C
2367 FE 98
2369 D8
236A 7D
236R C3 5C 23
                                                            jр
                               loc_0_2360:
                                                                                                                                                  ; CODE XREF: sub_0_2333+17<sup>†</sup> j
                                                           bit
                                                                           7, h
                                                            jp
ret
                                                                          NZ, loc_0_2359
                                                                                                                                                  ; CODE XREF: sub_0_2333+1D<sup>†</sup> j
                               loc_0_2366:
                                                            ld
                                                                          a, h
#0x98 ; 'ÿ'
                                                            ср
                                                            ret
236A 7D
236B C3 5C 23
236B
                                                           ld
jp
                               ; End of function sub_0_2333
236B
236E
236E
236E
236E
236E
                                                          SUBROUTINE
236E 236E 236E 236E 236E 236E 2371 2371 ED B1 2373 C2 9A 23 2376 E5 2377 C5 2378 01 14 00 237B 09 237C 0C 237D 5F 237E BE 2380 CA 8F 23 2383 09 2384 BE 2388 E7 2388 E1 2388 E1 2388 E1 2388 E1 2388 E1 2388 E1 2388 E1
                               sub_0_236E:
                                                                                                                                                  ; CODE XREF: sub_0_1AC3+50\p
                                                                                                                                                  ; sub_0_216D\p ...
                                                           ld
                                                                          hl, #unk_0_6300
                               loc_0_2371:
                                                                                                                                                  ; CODE XREF: sub_0_236E+1E|j
                                                            cpir
                                                           jp
push
push
ld
                                                                          NZ. loc 0 239A
                                                                          hl
bc
bc,
                                                                                #0x14
                                                            add
                                                                          hl. bc
                                                           inc
ld
ld
                                                                         c
e, a
a, d
```

a, d(hl)

a, a a, e bc

Z, loc_0_238F hl, bc (h1) Z, loc_0_2395 d, a

loc_0_2371

; CODE XREF: sub_0_236E+12[†]j

cp jp add

cp jp ld ld

pop

pop

238B E1 238C C3 238F

238F

71 23

loc_0_238F:

```
Page: 53
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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
2390 3E 01
2392 C3 98 23
2395
2395
                                                                  add
                                                                                  hl, bc
                                                                                 a, #1
loc_0_2398
                                                                  ld
 2395
2395 AF
2396 ED 42
2398
                                                                                                                                                                ; CODE XREF: sub 0 236E+171
                                   loc_0_2395:
                                                                  xor
sbc
                                                                                  hl, bc
 2398
2398 C1
2399 46
239A
                                  loc 0 2398:
                                                                                                                                                                ; CODE XREF: sub 0 236E+241j
                                                                                 bc
b, (hl)
 239A
239A E1
239B C9
239B
                                  loc_0_239A:
                                                                                                                                                                ; CODE XREF: sub_0_236E+51j
                                                                                  hl
                                                                  pop
                                                                  ret
                                   ; End of function sub_0_236E
 239B
239B
239C
239C
239C
239C
239C
239C
239C DD 7E 04
239C
                                                                SUBROUTINE
                                   sub_0_239C:
                                                                                                                                                                ; CODE XREF: sub_0_1AC3+FF<sup>†</sup>p
; sub_0_1AC3+129<sup>†</sup>p ...
                                                                                 a, 4(ix)
a, 0x11(ix)
4(ix), a
a, 3(ix)
a, 0x10(ix)
3(ix), a
a, 6(ix)
0x13(ix)
                                                                  ld
 239C
239F DD 86 11
23A2 DD 77 04
23A5 DD 7E 03
23A8 DD 8E 10
23AB DD 77 03
23AE DD 7E 06
23B1 DD 96 13
                                                                  add
ld
                                                                  ld
adc
                                                                  ld
ld
                                                                  sub
                                                                  ld
ld
sbc
ld
 23B4 6F
23B5 DD 7E 05
23B8 DD 9E 12
23BB 67
                                                                                 1, a
a, 5(ix)
a, 0x12(ix)
h, a
                                                                                 a, 0x14(ix)
 23BB 67
23BC DD 7E 14
23BF A7
23C0 17
23C1 3C
23C2 06 00
                                                                  ld
and
rla
                                                                  inc
ld
rl
sla
rl
                                                                                 a
b, #0
b
 23C1 3C
23C2 06 00
23C4 CB 10
23C6 CB 27
23C8 CB 10
23CA CB 27
23CC CB 10
23CE CB 27
23D0 CB 10
23D2 4F
23D3 09
23D4 DD 74
                                                                                 a
b
                                                                  sla
rl
                                                                  sla
rl
ld
add
                                                                                  a
b
                                                                                 c, a
hl, bc
5(ix), h
6(ix), l
0x14(ix)
 23D3 09
23D4 DD 74 05
23D7 DD 75 06
23DA DD 34 14
23DD C9
                                                                  1d
                                                                 ld
inc
ret
 23DD
23DD
23DE
23DE
23DE
                                   ; End of function sub_0_239C
                                                                SUBROUTINE
 23DE
23DE
23DE
23DE
23DE DD 7E 0F
                                   sub_0_23DE:
                                                                                                                                                                ; CODE XREF: sub_0_1F72+9F<sup>†</sup>p
; sub_0_1F72+101<sup>†</sup>p
  23DE
                                                                  ld
                                                                                 a, 0xF(ix)
  23E1 3D
23E2 C2 03 24
                                                                  dec
                                                                                 a
NZ, loc_0_2403
                                                                                                                                                                ; animate rolling barrels ; toggle H & V flips
 23E5 AF
23E6 DD CB 07 26
23EA 17
23EB DD CB 08 26
                                                                  xor
sla
rla
sla
                                                                                  a
7(ix)
                                                                                  8(ix)
                                                                                                                                                                 ; toggle H & V flips
 23EF 17
23F0 47
23F1 3E 03
23F3 B1
                                                                  rla
                                                                  ld
ld
                                                                                 b, a
a, #3
 23F3 B1
23F4 CD 09 30
23F7 1F
23F8 DD CB 08 1E
23FC 1F
                                                                  or
                                                                  call
                                                                                  sub_0_3009
                                                                                  8(ix)
                                                                                                                                                                ; toggle H & V flips
                                                                  rr
rra
 23FD DD CB 07 1E
2401 3E 04
2403
                                                                                  7(ix)
                                                                                                                                                                ; toggle H & V flips
  2403
                                   loc 0 2403:
                                                                                                                                                                ; CODE XREF: sub 0 23DE+41i
 2403 DD 77 OF
2406 C9
2406
                                                                  ld
                                                                                  0xF(ix), a
                                                                  ret
                                   ; End of function sub_0_23DE
 2406
2406
2407
2407
2407
2407
                                                               SUBROUTINE
 2407
2407 DD 7E 14
2407
                                   sub_0_2407:
                                                                                                                                                                ; CODE XREF: sub_0_1AC3+11C\u00e3p
; sub_0_1F72+151\u00e3p ...
                                                                  ld
                                                                                 a, 0x14(ix)
 240A 07
240B 07
240C 07
240D 07
                                                                  rlca
rlca
rlca
                                                                  rlca
 240D 07
240E 4F
240F E6 0F
2411 67
2412 79
2413 E6 F0
2415 6F
2416 DD 4E 13
2419 DD 46 12
241C ED 42
241E C9
241E
                                                                                c, a
#0xF
                                                                  ld
and
ld
                                                                                 h, a
a, c
                                                                                 a, c
#0xF0 ; '-'
                                                                  1d
                                                                                 1, a
c, 0x13(ix)
b, 0x12(ix)
                                                                  ld
                                                                  ld
                                                                  sbc
                                                                                  hl, bc
```

241E 241E 241F 241F 241F 241F 241F

241F 241F 11 00 01

2422 3A 03 62

; End of function sub_0_2407

1d

ld

sub_0_241F:

SUBROUTINE

de, #0x100
a, (mario_y_coord)

; CODE XREF: sub_0_1AC3+23\p; sub_0_1AC3+102\p ...

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
2425 FE 16
2427 PB 2428 15
2429 1C
2428 FE EA
242C DO
242D 1D
242E 3A 27 62
2431 OF
2432 DO
2433 3A 05 62
2436 FE 58
2438 DO
2439 3A 03 62
2436 FE 6C
243E DO
243F 14
2440 C9
                                                                                 #0x16
                                                                 ret
                                                                 dec
                                                                                 d
                                                                                 e
#0xEA ; 'Û'
                                                                 ср
                                                                 ret
dec
ld
                                                                                 NC
                                                                                 a, (level_type)
                                                                 rrca
                                                                 ret
ld
                                                                                NC
                                                                                 a, (mario_x_coord)
#0x58; 'X'
                                                                 ср
                                                                 ret
                                                                                 NC
                                                                                 a, (mario_y_coord)
#0x6C; '1'
                                                                 1d
                                                                 cp
ret
d
                                                                 inc
                                 ret
; End of function sub_0_241F
                                                               SUBROUTINE
                                 sub_0_2441:
                                                                                                                                                               ; CODE XREF: 0000:0D621p
                                                                 ld
ld
                                                                                hl, #aNINTENDO+1
a, #0x5E; '^'
b, #6
                                                                                                                                                               ; anti-tamper check?
                                                                 ld
                                 loc_0_2448:
                                                                                                                                                               ; CODE XREF: sub_0_2441+9|j
                                                                                a, (hl)
                                                                 add
2448 86
2449 23
2444 10 FC
244C FD 21 10 63
2450 A7
2451 CA 56 24
2456
2456
2456
2456
2456 3A 27 62
2459 3D
245A 21 E4 3A
245D CA 71 24
2460 3D
2461 21 5D 3B
2464 CA 71 24
2467 3D
2468 21 E5 3B
2468 CA 71 24
2468 21 E5 3B
2471
2471 DD 21 00 63
2471
2471 DD 21 00 63
                                                                                 loc_0_2448
                                                                 djnz
ld
and
                                                                                 iy, #unk_0_6310
                                                                                 a
Z, loc_0_2456
                                                                 jp
inc
                                 loc_0_2456:
                                                                                                                                                             ; CODE XREF: sub_0_2441+10 j
                                                                 1d
                                                                                a, (level_type)
                                                                 dec
ld
                                                                                hl, #barrel_level_tilemap_data
Z, loc_0_2471
                                                                 jp
dec
                                                                 ld
jp
dec
ld
                                                                                hl, #cement_pie_level_tilemap_data
Z, loc_0_2471
                                                                                a, #elevator_level_tilemap_data Z, loc_0_2471 hl, #rivet_level_tilemap_data
                                                                 jp
ld
                                                                                                                                                               ; CODE XREF: sub_0_2441+1C^{\dagger}j; sub_0_2441+23^{\dagger}j ...
                                 loc_0_2471:
                                                                                ix, #unk_0_6300
de, #5
                                                                 ld
2471
2475 11 05 00
2478
2478
2478 7E
                                                                 1d
                                                                                                                                                               ; CODE XREF: sub_0_2441+44|j; sub_0_2441+5A|j ...
                                 loc_0_2478:
2478 7E
2478 2479 A7
247A CA 88 24
247D 3D
247E CA 9E 24
                                                                ld
and
jp
                                                                                a, (hl)
                                                                                 a
Z, loc_0_2488
                                                                 dec
jp
cp
ret
                                                                                a
Z, loc_0_249E
247E CA 9E 24
2481 FE A9
2483 C8
2484 19
2485 C3 78 24
                                                                                 #0xA9
Z
                                                                                hl, de
                                                                 add
                                                                                 loc 0 2478
 2488
2488
                                 loc_0_2488:
 2488
                                                                                                                                                               ; CODE XREF: sub_0_2441+39 j
 2488 23
2489 7E
248A DD 77 00
                                                                                hl
                                                                                a, (hl)
0(ix), a
                                                                 ld
ld
248A DD 77 00
248D 23
248E 7E
248F DD 77 15
2492 23
2493 23
2494 7E
2495 DD 77 2A
2498 DD 23
2499 23
                                                                                hl
a. (hl)
                                                                 ld
ld
                                                                                 a, (hl)
0x15(ix), a
                                                                 inc
                                                                                 hl
                                                                 inc
                                                                                 hl
                                                                 ld
ld
                                                                                      (h1)
                                                                                 a, (hl)
0x2A(ix), a
                                                                 inc
                                                                                 ix
 249A 23
249B C3 78 24
249E
                                                                 inc
                                                                                 h1
                                                                 jр
                                                                                 loc_0_2478
249E
249E
249E
249E
249F 7E
24A0 FD 77 00
24A3 23
24A4 7E
24A5 FD 77 15
24A8 23
                                 loc_0_249E:
                                                                                                                                                               ; CODE XREF: sub_0_2441+3D<sup>†</sup> j
                                                                                a, (hl)
0(iy), a
                                                                 ld
ld
                                                                                 hl
                                                                                hl
a, (hl)
0x15(iy), a
                                                                  ld
                                                                 ld
24A8 23
24A9 23
24AA 7E
24AB FD 77 2A
                                                                 inc
                                                                                 h1
                                                                                 hl
                                                                  ld
                                                                                a, (hl)
0x2A(iy), a
                                                                 ld
24AE FD 23
24B0 23
24B1 C3 78 24
                                                                 inc
                                                                                iy
hl
                                                                                 loc_0_2478
                                                                 jp
                                  ; End of function sub 0 2441
 24B1
24B1
24B4
24B4
                                                               SUBROUTINE
24B4
24B4
24B4
                                                                                                                                                               ; CODE XREF: sub_0_1F72+A2\uparrowp ; sub_0_1F72+F6\uparrowp ...
                                  sub_0_24B4:
24B4 DD 7E 05
24B4
                                                                                a, 5(ix)
#0xE8; 'b'
                                                                 ld
24B4
24B7 FE E8
24B9 D8
24BA DD 7E 03
24BD FE 2A
24BF D0
24C0 FE 20
                                                                 cp
ret
                                                                                 a, 3(ix)
#0x2A; '*'
                                                                 1d
                                                                 cp
ret
                                                                                 NC
#0x20 ; ' '
```

ср

ret ld

a, 0x15(ix)

24C2 D8

24C3 DD 7E 15

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
24C6 A7
24C7 CA DO 24
24CA 3E 03
24CC 32 B9 62
24CF AF
                                                       jp
ld
ld
                                                                   Z, loc_0_24D0
                                                                    a, #3
(unk_0_62B9), a
                                                       xor
 24D0
24D0 24D0 DD 77 00 24D3 DD 77 00 24D3 DD 77 00 24D5 36 03 24D6 21 24DC 3A 48 63 24DF A7 24E0 C2 BA 21 24E3 3C 24E4 32 48 62 24E7 C3 BA 21 24E7 C3 BA 21
                            loc_0_24D0:
                                                                                                                                     ; CODE XREF: sub_0_24B4+13 j
                                                                    0(ix), a
                                                       ld
                                                                    3(ix)
                                                                   3(ix), a
h1, #digital_snd_tmr_thump
(h1), #3
h1
a, (unk_0_6348)
                                                       ld
                                                       ld
                                                                                                                                     ; tmr=3
                                                       pop
ld
                                                       and
                                                      jp
inc
ld
                                                                    NZ, loc_0_21BA
                                                                    a (unk_0_6348), a
24E7 C3 BA 21
24E7
24E7
                            jp loc_0_21BA
; End of function sub_0_24B4
24EA
24EA
24EA
24EA
24EA
24EA
24EA
24EC
24EC F7
24ED CD 23 25
24FO CD 91 25
24F3 DD 21 AO 65
24F7 06 06
24F9 21 B8 69
24FC
 24EA
                                                    SUBROUTINE
                            sub_0_24EA:
                                                                                                                                     ; CODE XREF: 0000:1992 p
                                                      ld
rst
                                                                   a, #2
0x30
sub_0_2523
                                                                                                                                     ; return if level bit not set
                                                       call
                                                                   sub_0_2591
ix, #unk_0_65A0
b, #6
hl, #soft_sprite_ram+0xB8
                                                       call
                                                      ld
ld
ld
                                                                                                                                     ; 6 sprites to update
24FC
24FC
24FC DD 7E 00
24FF A7
                            loc_0_24FC:
                                                                                                                                     ; CODE XREF: sub_0_24EA+2F|j
                                                       ld
                                                                   a, 0(ix)
                                                       and
2500 CA 1C 25
2503 DD 7E 03
2506 77
                                                                   Z, loc_0_251C
a, 3(ix)
(h1), a
                                                       jp
ld
ld
                                                                                                                                     ; sprite X
                                                                   1
a. 7(ix)
                                                      inc
ld
ld
 2507
2507 2C
2508 DD 7E 07
250B 77
250C 2C
                                                                                                                                     ; sprite tile #
                                                                    a, 7(1x (hl), a
                                                       inc
                                                                      . 8(ix)
 250D DD 7E 08
                                                                                                                                     ; sprite v flip & palette
                                                       ld
                                                       ld
inc
                                                                    (hl), a
2511 2C
2512 DD 7E 05
2515 77
2516 2C
2517
2517 DD 19
2519 10 E1
251B C9
                                                                       , 5(ix)
                                                                   a, 5(ix (hl), a
                                                       ld
                                                                                                                                     ; sprite Y
                                                       14
                            loc_0_2517:
                                                                                                                                     ; CODE XREF: sub 0 24EA+36-j
                                                                   ix, de loc_0_24FC
                                                       add
                                                       djnz
                                                      ret
251C
251C
251C
251C
251C
                            loc_0_251C:
                                                                                                                                     ; CODE XREF: sub_0_24EA+16 j
                                                       ld
251D C6 04
251F 6F
2520 C3 17 25
                                                      add
ld
jp
                                                                   a, #4
1, a
loc_0_2517
                            ; End of function sub_0_24EA
2520
                                                    SUBROUTINE
                            sub_0_2523:
                                                                                                                                     ; CODE XREF: sub_0_24EA+3↑p
                                                       ld
                                                                   hl, #unk_0_639B
                                                                   a, (hl)
                                                       ld
                                                       and
                                                                   NZ, loc_0_258F
a, (unk_0_639A)
                                                       jp
ld
                                                       and
                                                       ret
ld
                                                                   b, #6
de, #0x10
ix, #unk_0_65A0
                                                       ld
                                                       ld
                            loc_0_2539:
                                                                                                                                     ; CODE XREF: sub_0_2523+1F|j
                                                                   0, 0(ix)
Z, loc_0_2545
ix, de
loc_0_2539
                                                      bit
                                                      jp
add
djnz
 2545
2545
2545
2545
2545 CD 57 00
                                                                                                                                     ; CODE XREF: sub 0 2523+1A 1 j
                           loc_0_2545:
                                                       call
                                                                    rand
                                                                   rand

#0x60; '`'

5(ix), #0x7C; '|'

C, loc_0_2558

a, (unk_0_62A3)

a
 2548 FE 60
254A DD 36 05 7C
254E DA 58 25
                                                       cp
ld
                                                      jp
ld
dec
2551 3A A3 62
2554 3D
2555 C2 6E 25
2558
                                                                    NZ, loc_0_256E
                                                       jр
2558
2558 DD 36 05 CC
255C 3A A6 62
255F 07
                            loc_0_2558:
                                                                                                                                     ; CODE XREF: sub_0_2523+2B|j
                                                      ld
ld
                                                                   rlca
2556 07
2560 2560 DD 36 03 07
2564 D2 76 25
2567 DD 36 03 F8
2568 C3 76 25
                                                                                                                                     ; CODE XREF: sub_0_2523+50|j
                            loc_0_2560:
                                                                   3(ix), #7
NC, loc_0_2576
3(ix), #0xF8; '''
loc_0_2576
                                                       ld
                                                       jp
ld
                                                       jр
 256E
```

; CODE XREF: sub_0_2523+32[†] j

; CODE XREF: sub_0_2523+41^j; sub_0_2523+48^j;

256E 256E 256E CD 57 00

FE 68

2576 DD 36 00 01

C3 60 25

loc_0_256E:

loc 0 2576:

call

ср

rand

#0x68

loc_0_2560

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
                                                             ld
                                                                           0(ix), #1
                                                                           7(ix), #0x4B; 'K'
9(ix), #8
0xA(ix), #3
a, #0x7C; ''
257A DD 36 07 4B
                                                             ld
                                                                                                                                                     ; cement pie sprite tile
257A DD 36 07 4B
257E DD 36 09 08
2582 DD 36 0A 03
2586 3E 7C
2588 32 9B 63
                                                             ld
ld
ld
                                                                            (unk_0_639B), a
                                                             ld
258B AF
258C 32 9A 63
258F
                                                                            (unk_0_639A), a
                               loc_0_258F:
                                                                                                                                                     ; CODE XREF: sub 0 2523+511
258F
258F 35
2590 C9
2590
                                                             dec
                                                                           (hl)
                                                             ret
                               ; End of function sub_0_2523
2590
2591
2591
2591
                                                           SUBROUTINE ...
2591
2591
2591
2591 DD 21 A0 65
2595 11 10 00
2598 06 06
259A
259A
                                                                                                                                                     ; CODE XREF: sub_0_24EA+61p
                                                             ld
                                                                            ix, #unk_0_65A0
                                                             ld
                                                                            de, #0x10
                                                             ld
                                                                            b, #6
                               loc 0 259A:
                                                                                                                                                     ; CODE XREF: sub 0 2591+2C-j
259A DD CB 00 46
                                                                           0, 0(ix)
Z, loc_0_25BB
a, 3(ix)
h, a
a, #7
                                                             bit
259A DD CB 00
259E CA BB 25
25A1 DD 7E 03
25A4 67
25A5 C6 07
25A7 FE 0E
25A9 DA D6 25
25AC DD 7E 05
25AF FE 7C
25B1 CA CO 25
25B4 3A A6 63
25B7 84
                                                             jp
ld
                                                             ld
                                                                           h, a
a, #7
#0xE
C, loc_0_25D6
a, 5(ix)
#0x7C; '|'
Z, loc_0_25C0
a, (unk_0_63A6)
a, h
                                                             add
                                                             ср
                                                             jp
ld
                                                             cp
jp
ld
                                                             add
                                                                            a. h
25B8 DD 77 03
25BB
25BB
                                                             ld
                                                                            3(ix), a
                               loc_0_25BB:
                                                                                                                                                     ; CODE XREF: sub_0_2591+D<sup>†</sup>j; sub_0_2591+42<sup>†</sup>j ...
25BB DD 19
25BB 25BD 10 DB
25BF C9
                                                             add
djnz
                                                                            ix, de
loc_0_259A
25BF C9
25C0
25C0
25C0
25C0
7C
25C1 FE 80
25C3 CA D6 25
25C6 3A A5 63
25C9 D2 CF 25
25CC 3A A4 63
25CF
25CF
25CF
84
                                                             ret
                                                                                                                                                     ; CODE XREF: sub_0_2591+201j
                               loc_0_25C0:
                                                                           a, h

#0x80; 'C'

Z, loc_0_25D6

a, (unk_0_63A5)

NC, loc_0_25CF

a, (unk_0_63A4)
                                                             ld
                                                             cp
jp
ld
                                                             jp
ld
                               loc_0_25CF:
                                                                                                                                                     ; CODE XREF: sub_0_2591+38 j
                                                                            a, h
3(ix), a
loc_0_25BB
25CF 84
                                                             add
25D0 DD 77 03
25D3 C3 BB 25
25D6
                                                             ld
                                                             jр
25D6
25D6
25D6 21 B8 69
25D6
                                                                                                                                                        CODE XREF: sub_0_2591+18<sup>†</sup> j
sub_0_2591+32<sup>†</sup> j
                                loc_0_25D6:
ld
                                                                           hl, #soft sprite ram+0xB8
                                                                           a, #6
b
                                                             ld
                               loc 0 25DC:
                                                                                                                                                     ; CODE XREF: sub 0 2591+53-j
                                                             jp
inc
inc
inc
inc
dec
                                                                            Z, loc_0_25E7
                                                             jр
                                                                            loc_0_25DC
25E7
25E7
25E7
25E7
25E7 AF
                               loc_0_25E7:
                                                                                                                                                     ; CODE XREF: sub_0_2591+4B<sup>†</sup>j
                                                             xor
25E7 AF
25E8 DD 77 00
25EB DD 77 03
25EE 77
25EF C3 BB 25
                                                             ld
ld
ld
                                                                           0(ix), a
3(ix), a
(h1), a
loc_0_25BB
                               jp
; End of function sub_0_
25EF
25EF
25EF
25F2
25F2
25F2
25F2
25F2
25F2
25F2 3E 02
25F4 F7
25F5 CD 02 26
25F8 CD 02 26
25F8 CD 03 2A
2601 C9
2601
                                                            SUBROUTINE
                               sub 0 25F2:
                                                                                                                                                     ; CODE XREF: 0000:19AA p
                                                             ld
                                                                            a, #2
0x30
                                                             rst
call
                                                                                                                                                     ; return if level bit not set
                                                                            sub_0_2602
                                                             call
                                                                            sub_0_262F
                                                             call
                                                                            sub_0_2679
sub_0_2AD3
                                                             ret
                               ; End of function sub 0 25F2
2601
2602
2602
                                                         SUBROUTINE ...
2602
2602
2602
2602
2602 3A 1A 60
2602
2605 0F
2606 DA 16 26
2609 21 AO 62
2600 35
                                                                                                                                                     ; CODE XREF: 0000:16D5<sup>p</sup>; sub_0_25F2+3<sup>p</sup>
                               sub_0_2602:
                                                             ld
                                                                            a, (gen_purpose_timer)
                                                             rrca
jp
ld
                                                                            C, loc_0_2616
                                                                            hl, #unk_0_62A0 (hl)
                                                             dec
260C 35
260D C2 16 26
2610 36 80
2612 2C
2613 CD DE 26
2616
2616 21 21 60
                                                             jp
ld
                                                                            NZ, loc_0_2616
(hl), #0x80; 'Ç'
```

; CODE XREF: sub_0_2602+4[†]j; sub_0_2602+B[†]j

call

1d

loc_0_2616:

2616 21 A1 62

sub_0_26DE

hl, #unk_0_62A1

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
2619 CD E9 26
                                                               call
                                                                             sub_0_26E9
(unk_0_63A3), a
261C 32 A3 63
261F 3A 1A 60
2622 E6 1F
2624 FE 01
                                                               ld
                                                              ld
and
                                                                              a, (gen_purpose_timer)
#0x1F
                                                               ср
2626 C0
2627 11 E4 69
262A EB
262B CD A6 26
                                                               ret
                                                                              NZ
                                                              ld
ex
call
                                                                             de, #soft_sprite_ram+0xE4
de, hl
sub_0_26A6
262E C9
                                                               ret
262E
262E
262F
                                ; End of function sub_0_2602
262F
262F
262F
262F
                                                            SUBROUTINE
                                sub 0 262F:
                                                                                                                                                         ; CODE XREF: sub 0 25F2+61p
262F 262F 21 A3 62 2632 3A 05 62 2635 FE C0 263A 3A 1A 60 263D 0F 263E DA 4C 2641 2D 2642 35 2643 C2 4C 2646 36 C0 2648 2C 2649 CD DE 26 2649 CD DE 26 2645 CD DE 26 2649 CD DE 26 2645 CD DE 26 2649 CD DE 26 2645 CD DE 26
                                                                             hl, #unk_0_62A3
a, (mario_x_coord)
#0xC0; 'L'
C, loc_0_266F
a, (gen_purpose_timer)
                                                               1d
                                                               ld
                                                               ср
                                                               jp
ld
rrca
                                                                             C, loc_0_264C
1
                                                               jp
dec
                                                                              (h1)
NZ, loc_0_264C
(h1), #0xC0; L
                                                               dec
                                                               jp
ld
2648 2C
2649 CD DE 26
264C
264C
                                                               call
                                                                              sub_0_26DE
                                loc_0_264C:
                                                                                                                                                          ; CODE XREF: sub_0_262F+F^j
264C 21 A3 62 264C 264C E652 32 A5 63 2655 ED 44 2657 32 A4 63 2655 E6 1F 265F CO 2660 2D 2661 11 EC 69 2664 EB
                                                                                                                                                          ; sub_0_262F+14 i ...
                                                                             hl, #unk_0_62A3
sub_0_26E9
(unk_0_63A5), a
                                                               ld
                                                              call
ld
                                                              neg
ld
ld
                                                                              (unk_0_63A4), a
                                                                             a, (gen_purpose_timer) #0x1F
                                                               and
                                                              ret
dec
ld
                                                                             NZ
1
de, #soft_sprite_ram+0xEC
2661 11 EC 69
2664 EB
2665 CD A6 26
2668 E6 7F
                                                               ex
                                                                              de, hl
                                                              call
and
ld
                                                                             de, fil
sub_0_26A6
#0x7F; ' '
hl, #soft_sprite_ram+0xED
(hl), a
         21 ED 69
266A
266D
                                                               14
266D 77
266E C9
266F
266F
266F
266F CB 7E
2671 C2 4C 26
2674 36 FF
2676 C3 4C 26
2676
2676
                                                               ret
                                loc_0_266F:
                                                                                                                                                          ; CODE XREF: sub_0_262F+81j
                                bit 7, (h1)

jp NZ, loc_0_264C

ld (h1), #0xFF

jp loc_0_264C

; End of function sub_0_262F
2679
2679
2679
2679
                                                             SUBROUTINE
2679 2679 3A 1A 60 267C 0F 267D DA 8D 26 2680 21 A5 62 2684 C2 8D 26 2689 2C 2688 CD DE 26 268D 268B CD DE 26 268D
                                sub_0_2679:
                                                                                                                                                         ; CODE XREF: sub_0_25F2+9 p
                                                              ld
rrca
                                                                              a, (gen_purpose_timer)
                                                                             C, loc_0_268D
hl, #unk_0_62A5
                                                               jp
ld
dec
jp
ld
                                                                               (hl)
                                                                             NZ, loc_0_268D
(hl), #0xFF
                                                                              sub_0_26DE
268D
268D 21 A6 62
268D
2690 CD E9 26
                                                                                                                                                          ; CODE XREF: sub_0_2679+4<sup>†</sup>j
; sub_0_2679+B<sup>†</sup>j
                                loc_0_268D:
                                                               ld
                                                                             hl, #unk_0_62A6
sub_0_26E9
                                                               call
2693 32 A6 63
2696 3A 1A 60
2699 E6 1F
                                                                              (unk_0_63A6), a
                                                                              a, (gen_purpose_timer)
                                                               ld
                                                               and
269B FE 02
                                                               ср
269D C0
269E 11 F4 69
26A1 EB
                                                               ret
ld
                                                                              de, #soft_sprite_ram+0xF4
20A1 EB
26A2 CD A6 26
26A5 C9
26A5
26A6
26A6
                                                               ex
                                                                              de.
                                                                                     hl
                                                                              sub_0_26A6
                                                               call
                                ret; End of function sub_0_2679
26A6
26A6
26A6
                                ; SUBROUTINE
26A6
26A6 2C
26A6
26A7 1A
26A8 17
                                                                                                                                                          ; CODE XREF: sub_0_2602+29<sup>p</sup>;
; sub_0_262F+36<sup>p</sup> ...
                                sub_0_26A6:
                                                               ld
                                                                             a. (de)
26A8 17
26A9 DA C5 26
26AC 7E
26AD 3C
                                                               rla
                                                               jp
ld
                                                                             C, loc_0_26C5
a, (hl)
                                                               inc
26AD 3C
26AE FE 53
26B0 C2 B5 26
26B3 3E 50
26B5
26B5
26B5 77
                                                                              #0×53 ; 'S
                                                                             NZ, loc_0_26B5
a, #0x50; 'P'
                                                               jp
1d
                                loc_0_26B5:
                                                                                                                                                         ; CODE XREF: sub_0_26A6+A1j
                                                                              (hl), a
```

; CODE XREF: sub_0_26A6+18[†]j

a, 1 a, #4 1, a a, (h1)

NZ, loc_0_26C3 a, #0xD2; 'Ê'

ld

ср

jp ld

loc_0_26C3:

add ld ld dec

26B6

26C3 26C3

26B7 C6 04 26B9 6F 26BA 7E 26BB 3D

26BC FE CF 26BE C2 C3 26 26C1 3E D2

```
; CODE XREF: sub_0_26A6+3^j
                                                           NZ, loc_0_26CE
a, #0x52; 'R'
                                                jp
ld
                                                                                                                     ; CODE XREF: sub_0_26A6+23 j
                         loc_0_26CE:
                                                           (hl), a
                                                ld
                                                           a, 1
a, #4
1, a
a, (h1)
                                                ld
                                                add
ld
ld
                                                           a
#0xD3; 'Ë'
NZ, loc_0_26DC
                                                inc
                                                jp
ld
                                                           a, \#0xD0;
                         loc_0_26DC:
                                                                                                                     ; CODE XREF: sub_0_26A6+31<sup>†</sup> j
                                                ld
                                                           (hl), a
26DD C9
                                                ret
26DD
26DD
                         ; End of function sub_0_26A6
26DE
26DE
26DE
26DE
26DE
                                               SUBROUTINE
                                                                                                                     ; CODE XREF: sub_0_2602+11\uparrowp ; sub_0_262F+1A\uparrowp ...
                         sub_0_26DE:
26DE 26DE CB 7E 26DE CA E6 26 26E3 36 02 26E5 C9 26E6 26E6 26E6
                                                           7, (hl)
Z, loc_0_26E6
                                               bit
                                                jp
ld
                                                           (hl), #2
                                                                                                                     ; CODE XREF: sub 0 26DE+21i
26E6
                         loc_0_26E6:
26E6 36 FE
26E8 C9
26E8
                                                1d
                                                           (hl), #0xFE ; '■'
                                                ret
                         ; End of function sub_0_26DE
26E8
                                               SUBROUTINE
26E9
26E9
26E9
26E9
26E9 3A 1A 60
26EC E6 01
26EC C8
26EF CB 7E
                         sub_0_26E9:
                                                                                                                     ; CODE XREF: sub_0_2602+17^{\uparrow}p; sub_0_262F+20^{\uparrow}p ...
                                                           a, (gen_purpose_timer)
#1
                                                ld
                                                and
ret
bit
                                                           Z
7, (hl)
26F1 3E FF
26F3 C2 F8 26
26F6 3E 01
26F8
                                                1d
                                                                #0xFF
                                                           a, #UXFF
NZ, loc_0_26F8
a, #1
26F8
26F8 77
26F9 C9
26F9
                         loc_0_26F8:
                                                                                                                     ; CODE XREF: sub_0_26E9+A1j
                                                ld
ret
                                                           (hl), a
                         ; End of function sub_0_26E9
26F9
                                              SUBROUTINE
                         sub_0_26FA:
                                                                                                                     ; CODE XREF: 0000:19A7\p
                                                           a, #4
0x30
                                                ld
                                                rst
ld
cp
                                                                                                                     ; return if level bit not set
                                                           a, (mario_x_coord)
#0xF0; '-'
                                                           NC, mario_dies_on_elevator
                                                jp
ld
dec
                                                                                                                     ; make mario die
                                                           a, (level)
a
                                                           a, (gen_purpose_timer)
NZ, loc_0_271A
                                                jp
and
cp
                                                           Z, loc_0_271E
                                                jр
                                                jp
ret
                                                           C. loc 0 2722
                                                                                                                     ; CODE XREF: sub 0 26FA+121i
                         loc 0 271A:
271A OF
271B DA 22 27
                                                           C, loc_0_2722
                                                jр
                         loc 0 271E:
                                                                                                                     ; CODE XREF: sub_0_26FA+19 j
271E CD 45 27
2721 C9
                                                call
                                                           sub_0_2745
                                                ret
2722
2722 CD 97 27
                                                                                                                     ; CODE XREF: sub_0_26FA+1C\uparrow j ; sub_0_26FA+21\uparrow j
                         loc_0_2722:
                                                call
                                                           sub 0 2797
                                                           sub_0_27pA

b, #6

de, #0x10

h1, #soft_sprite_ram+0x58

ix, #unk_0_6600
2725 CD DA 27
2728 06 06
272A 11 10 00
272D 21 58 69
                                                call
ld
ld
                                                                                                                     ; six elevators
                                                ld
2730 DD 21 00 66
2734
2734 DD 7E 03
                                                ld
                         loc_0_2734:
                                                                                                                      ; CODE XREF: sub_0_26FA+48 | j
                                                           a, 3(ix) (hl), a
                                                ld
                                                                                                                      ; store coordinates
                                                ld
inc
                                                inc
                                                inc
273B DD 7E 05
273E 77
273F 2C
                                                ld
ld
                                                           a, 5(ix) (hl), a
                                                inc
2740 DD 19
2742 10 F0
2744 C9
                                                add
                                                            ix de
                                                           loc_0_2734
                                                ret
                         ; End of function sub_0_26FA
```

```
SUBROUTINE
2745
2745
2745
2745
2745
2745 3A 98 63
2748 A7
2749 C8
274A AA 16 62
274D A7
274F CO
274F AA 03 62
2752 FE 2C
2754 DA 66 27
2757 FE 43
2759 DA 6F 27
2756 FE 6C
2756 DA 66 27
2745
                              sub_0_2745:
                                                                                                                                             ; CODE XREF: sub_0_26FA+24\p
                                                         ld
                                                                       a, (mario_on_elevator)
                                                          and
                                                                                                                                             ; on elevator?
; no, return
                                                         ret
ld
                                                                       a, (mario_jumping)
                                                                                                                                             ; jumping?
; yes, return
                                                          and
                                                          ret
ld
                                                                       NZ
                                                                             (mario_y_coord)
                                                         cp
jp
cp
jp
cp
                                                                       C, loc_0_2766
#0x43 ; 'C'
                                                                                                                                             ; not not elevator
                                                                            loc_0_276F
                                                                                                                                             ; on left elevator
                                                                        #0x6C
                                                                       C, loc_0_2766
#0x83 ; 'â'
275E DA 66 27
2761 FE 83
2763 DA 87 27
                                                                                                                                             ; not on elevator
                                                                       C, loc_0_2787
                                                                                                                                             ; on right elevator
                                                          jр
2766
2766
2766 AF
2766
2767 32 98 63
                                                                                                                                             ; CODE XREF: sub_0_2745+F<sup>†</sup>j
; sub_0_2745+19<sup>†</sup>j
; mark off elevator
                             loc_0_2766:
                                                          xor
                                                                       (mario_on_elevator), a
                                                          ld
        3C
32 21 62
                                                          inc
ld
                                                                       (unk_0_6221), a
276E C9
276F
                                                          ret
276F
276F
276F
276F
                             loc_0_276F:
                                                                                                                                             ; CODE XREF: sub_0_2745+14 j
         3A 05 62
                                                          ld
                                                                            (mario_x_coord)
2777 3A 05 02
2772 FE 71
2774 DA 7F 27
2777 3D
2778 32 05 62
2778 32 4F 69
                                                         cp
jp
dec
                                                                       #0x71 ; 'q'
C, mario_dies_on_elevator
                                                                                                                                             ; make mario die
; on upwards moving elevator
                                                                        (mario x coord), a
277B 32
277E C9
277F
                                                          ld
                                                                        (soft_sprite_ram+0x4F), a
277F
277F
277F AF
277F
                                                                                                                                             ; CODE XREF: sub_0_26FA+8<sup>†</sup>j; sub_0_2745+2F<sup>†</sup>j ...
                              mario_dies_on_elevator:
277F
2780 32 00 62
2783 32 98 63
2786 C9
                                                                        (mario alive flag), a
                                                          ld
                                                         ld
ret
                                                                        (mario_on_elevator), a
2787
2787
                              loc_0_2787:
                                                                                                                                             ; CODE XREF: sub_0_2745+1E<sup>†</sup>j
                                                          ld
                                                                            (mario_x_coord)
278A FE E8
278C D2 7F 27
278F 3C
2790 32 05 62
                                                         cp
jp
inc
                                                                        #0xE8 ;
                                                                       NC, mario_dies_on_elevator
                                                                                                                                             ; on downwards moving elevator
                                                                       (mario_x_coord), a
(soft_sprite_ram+0x4F), a
2793 32 4F 69
2796 C9
2796
2796
                                                          1d
                                                          ret
                              ; End of function sub_0_2745
2797
2797
2797
2797
                                                        SUBROUTINE
                             sub_0_2797:
                                                                                                                                             ; CODE XREF: sub_0_26FA+28 p
2797 06 06
2799 11 10 00
279C DD 21 00 66
                                                                       b, #6
de, #0x10
                                                         ld
ld
                                                                                                                                             ; move elevators to the right side
                                                                       ix, #unk_0_6600
                                                          ld
27A0
27A0
27A0
27A0
DD CB 00 46
27A4 CA C2 27
27A7 DD CB 0D 5E
27AB CA C7 27
27AE DD 7E 05
27B1 28
                             loc_0_27A0:
                                                                                                                                             ; CODE XREF: sub_0_2797+2D|j
                                                                       0, 0(ix)
                                                                       0, 0(1x)

Z, loc_0_27C2

3, 0xD(1x)

Z, loc_0_27C7

a, 5(1x)
                                                         jp
bit
jp
ld
27B1 3D
27B2 DD 77 05
27B5 FE 60
27B7 C2 C2 27
                                                                       a
5(ix), a
                                                          ld
                                                          ср
                                                                       #0x60 ; '`'
NZ, loc_0_27C2
                                                          jp
ld
27BA DD 36 03 77
27BE DD 36 0D 04
27C2
                                                                       3(ix), #0x77
0xD(ix), #4
                                                                                                                                             ; CODE XREF: sub_0_2797+D<sup>†</sup> j ; sub_0_2797+20<sup>†</sup> j ...
                             loc 0 27C2:
27C2 DD 19
27C2
27C4 10 DA
                                                                       ix, de loc_0_27A0
                                                         djnz
27C6 C9
27C7
27C7 DD 7E 05
27CA 3C
27CB DD 77 05
27CE FE F8
                             loc_0_27C7:
                                                                                                                                             ; CODE XREF: sub 0 2797+14 j
                                                          ld
                                                                       a, 5(ix)
                                                                      a,
a
5(ix), a
"^xF8; '°'
                                                          ld
                                                          ср
27CE FE F8
27D0 C2 C2 27
27D3 DD 36 00 00
27D7 C3 C2 27
                             jp NZ, loc_0_27C2
ld 0(ix), #0
jp loc_0_27C2
; End of function sub_0_2797
27D0
27D3
27D7
27D7
27D7
27DA
27DA
                                                      SUBROUTINE
27DA
27DA

27DA

27DA

27DA 21 A7 62

27DD 7E

27DE A7

27DF C2 06 28

27E2 06 06

27E4 DD 21 00 66
                                                                                                                                             ; CODE XREF: sub_0_26FA+2Bîp
; move elevators to the left side
                              sub_0_27DA:
                                                          ld
                                                                       hl, #unk_0_62A7
                                                          ld
                                                                       a, (hl)
                                                          and
jp
ld
                                                                       NZ, loc_0_2806
                                                                       b, #6
ix, #unk_0_6600
                                                          ld
27E8
27E8
                                                                                                                                             ; CODE XREF: sub_0_27DA+17|j
                              loc_0_27E8:
27E8
27E8 DD CB 00 46
27EC CA F4 27
27EF DD 19
27F1 10 F5
                                                          bit
                                                                       0, 0(ix)
                                                          jp
add
                                                                       Z, loc_0_27F4
ix, de
loc_0_27E8
                                                         djnz
27F3 C9
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
                                                                                                                                     ; CODE XREF: sub 0 27DA+121i
       27F4
                                 loc 0 27F4:
      27F4 DD 36 00 01 27F8 DD 36 03 37 27FC DD 36 05 F8 2800 DD 36 0D 08 2804 36 34 2806 2806 25 5
                                                                      0(ix), #1
3(ix), #0x37; '7'
5(ix), #0xF8; '0'
0xD(ix), #8
(h1), #0x34; '4'
                                                          ld
ld
ld
                                                          ld
                                                          ld
                                 loc_0_2806:
                                                                                                                                     ; CODE XREF: sub_0_27DA+5 j
       2806 35
2807 C9
2807
2807
                                                          dec
                                                                       (hl)
                                                          ret
                                 ; End of function sub_0_27DA
       2808
2808
2808
2808
                                                         SUBROUTINE
      sub_0_2808:
                                                                                                                                     ; CODE XREF: 0000:19B3 p
                                                                      iy, #mario_alive_flag
a, (mario_x_coord)
                                                          ld
ld
                                                          ld
                                                                       c, a
hl, #0x407
                                                          ld
call
                                                                       sub_0_286F
                                                          and
                                                                       a
Z
                                                          ret
                                                          dec
ld
                                                                                                                                     ; die
                                                                       a
(mario_alive_flag), a
                                                          ret
                                 ; End of function sub_0_2808
                                                       SUBROUTINE .
      281D
281D
281D
281D
281D 06 02
281F 11 10 00
2822 FD 21 80 66
2826
                                 sub_0_281D:
                                                                                                                                     ; CODE XREF: 0000:19B6 p
                                                                      b, #2
                                                          ld
                                                                       de, #0x10
iy, #unk_0_6680
                                                          ld
                                                                                                                                     ; hammer character data
      2826
2826 FD CB 01 46
282A C2 32 28
282D FD 19
282F 10 F5
                                                                                                                                     ; CODE XREF: sub 0 281D+12-i
                                 loc 0 2826:
                                                                      0, 1(iy)
NZ, loc_0_2832
                                                          bit
                                                          jp
add
                                                                      iy, de
loc_0_2826
      djnz
                                                                                                                                     ; CODE XREF: sub 0 281D+D1i
                                 loc 0 2832:
                                                          ld
ld
                                                                      c, 5(iy)
h, 9(iy)
1, 0xA(iy)
                                                          ld
                                                          call
and
ret
                                                                       sub_0_286F
                                                                      (unk_0_6350), a
a, (unk_0_63B9)
b
                                                          ld
ld
                                                          sub
ld
                                                                       (unk_0_6354), a
                                                                       a, e
(unk_0_6353), a
(unk_0_6351), ix
                                                          ld
                                                          ld
ld
                                                          ret
                                 ; End of function sub 0 281D
                                                        SUBROUTINE ...
                                 sub_0_2853:
                                                                                                                                     ; CODE XREF: sub_0_1AC3+15D\p
                                                                      iy, #mario_alive_flag
a, (mario_x_coord)
                                                          ld
                                                          ld
                                 loc_0_285A:
      a, #0xC
c, a
a, (controller_in)
#3
                                                          add
                                                          ld
ld
                                                                                                                                     ; left/right only
                                                          and
                                                                      hl, #0x508
Z, loc_0_286B
hl, #0x1308
                                                          ld
                                                                                                                                     ; not left/right
                                                          jp
ld
       286B
286B CD 88 3E
286E C9
                                 loc_0_286B:
                                                                                                                                     ; CODE XREF: sub_0_2853+12 j
                                                          call
                                                                       sub_0_3E88
                                 ret; End of function sub_0_2853
       286E
       286E
286F
                                                         SUBROUTINE
       286F
286F
       286F
286F
286F 3A 27 62
                                                                                                                                     ; CODE XREF: sub_0_2808+B\uparrow p; sub_0_281D+1E\uparrow p
                                 sub_0_286F:
72 E5
2873 EF
2873 EF
2873 EF
2874 00 00
2876 80 28
2878 B0 28
2878 E0 28
287C 01 29
287E 00 00
2880
2880
2880
2880 E1
2881 06 0A
2883 78
2884 32 B9 63
2887 11 20 00
288A DD 21 00 67
188E CD 13 29
891 06 05
393 78
194 32 B9
97 1F
       286F
2872 E5
2873 EF
2873
                                                                      a, (level_type)
hl
0x28
                                                          1d
                                                          push
rst
                                                                                                                                      ; go!
                                                          .dw 0
.dw 11_check_hammer_hit
.dw 12_check_hammer_hit
.dw 13_check_hammer_hit
                                                                                                                                     ; Jump table
                                                          .dw
                                                                14_check_hammer_hit
                                 11_check_hammer_hit:
                                                                                                                                     ; DATA XREF: sub_0_286F+7↑o
                                                          pop
ld
                                                                      h; #0xA
a, b
(unk_0_63B9), a
de, #0x20; '
ix, #unk_0_6700
                                                          ld
```

ld ld ld

call ld ld

1d

sub_0_2913 b, #5 a, b (unk_0_63B9), a e, #0x20; ''

288A DD 21 00 288E CD 13 29 2891 06 05 2893 78 2894 32 B9 63 2897 1E 20

```
2899 DD 21 00 64
                                                                                     ix, #unk_0_6400
                                                                                                                                                                        ; fireball character data
                                                                     ld
2899 DD 21 00 64
2890 CD 13 29
28A0 06 01
28A2 78
28A3 32 B9 63
28A6 1E 00
28A8 DD 21 A0 66
28AC CD 13 29
28AF CP
                                                                                     sub_0_2913
                                                                     call
                                                                     ld
ld
ld
                                                                                     b, #1
a, b
(unk_0_63B9), a
                                                                                     e, #0
ix, #unk_0_66A0
                                                                     1d
                                                                     ld
                                                                     call
                                                                                     sub_0_2913
                                                                     ret
                                   ; End of function sub_0_286F
 28AF
 28AF
28B0
28B0
28B0 E1
28B0 E1
                                   12_check_hammer_hit:
                                                                                                                                                                        ; DATA XREF: sub_0_286F+9<sup>o</sup>; sub_0_3E88+9<sup>o</sup>
                                                                                     hl
                                                                     pop
ld
                                                                                     h1
b, #5
a, b
(unk_0_63B9), a
de, #0x20;
ix, #unk_0_6400
28B1 06 05
28B3 78
28B4 32 B9 63
28B7 11 20 00
28BA DD 21 00 64
28BE CD 13 29
28C1 06 06
28C3 78
28C7 1E 10
28C9 DD 21 A0 65
28CD CD 13 29
28D0 06 01
28D2 78
28D3 32 B9 63
28D6 1E 00
28D8 DD 21 A0 66
 28B1 06 05
                                                                     ld
ld
ld
                                                                     ld
                                                                                                                                                                       ; fireball character data
                                                                     call
ld
ld
ld
                                                                                     sub_0_2913
b, #6
a, b
                                                                                     a, b
(unk_0_63B9), a
                                                                     ld
ld
                                                                                     e, #0x10
ix, #unk_0_65A0
                                                                     call
                                                                                     sub_0_2913
                                                                                     b, #1
a, b
(unk_0_63B9), a
                                                                     ld
                                                                     ld
ld
ld
                                                                                     e, #0 ix, #
                                                                                     ix, #unk_0_66A0
sub_0_2913
                                                                     ld
                                                                     call
                                                                     ret
28E0
28E0
28E0 E1
                                                                                                                                                                         ; DATA XREF: sub_0_286F+B\uparrowo ; sub_0_3E88+B\uparrowo
                                  13_check_hammer_hit:
28E0 E1
28E1 06 05
28E3 78
28E4 32 B9 63
28E7 11 20 00
28EA DD 21 00 64
28EE CD 13 29
28F1 06 0A
28F3 78
28F4 32 B9 63
28F7 1E 10
28F9 DD 21 00 65
28F9 DD 21 00 65
2900 C9
2901
                                                                     pop
ld
ld
ld
 28E0
                                                                                     n1
b, #5
a, b
(unk_0_63B9), a
de, #0x20; ''
ix, #unk_0_6400
sub_0_2913
                                                                     ld
                                                                     ld
call
ld
ld
                                                                                                                                                                        ; fireball character data
                                                                                     b, #0xA
a, b
(unk_0_63B9), a
                                                                     ld
ld
                                                                                     e, #<mark>0x10</mark>
ix, #unk_0_6500
                                                                                                                                                                        ; check if hammer hits a spring
                                                                     ld
                                                                     call
ret
                                                                                     sub_0_2913
2901
2901
2901 E1
2901
                                  14_check_hammer_hit:
                                                                                                                                                                        ; DATA XREF: sub_0_286F+D\uparrowo ; sub_0_3E88+D\uparrowo
                                                                     pop
ld
ld
ld
ld
b, #7
a, b
(unk_0_63B9), a
                                                                                     de, #0x20; ''
ix, #unk_0_6400
                                                                     ld
                                                                                                                                                                        ; fireball character data
                                                                                     sub_0_2913
                                                                    SUBROUTINE
                                                                                                                                                                        ; CODE XREF: sub_0_286F+1F^p; sub_0_286F+2E^p...
                                  sub_0_2913:
                                                                    push
2915
2915 DD CB 00 46
2919 CA 4C 29
291C 79
                                                                                                                                                                        ; CODE XREF: sub_0_2913+3B| j
; check if hammer hits something else
                                   loc_0_2915:
                                                                                     0, 0(ix)
Z, loc_0_294C
                                                                     bit
                                                                     jp
ld
291C 79
291D DD 96 05
2920 D2 25 29
2923 ED 44
2925
2925
2925 3C
2926 95
                                                                     sub
jp
                                                                                     NC, loc_0_2925
                                                                     neg
                                   loc_0_2925:
                                                                                                                                                                        ; CODE XREF: sub_0_2913+Dfj
                                                                     inc
sub
2926 95
2927 DA 30 29
292A DD 96 0A
292D D2 4C 29
2930
2930 FD 7E 03
2933 DD 96 03
2936 D2 3B 29
2939 FD 44
                                                                                     C, loc_0_2930

OxA(ix)

NC, loc_0_294C
                                                                     jp
sub
jp
                                                                                                                                                                        ; CODE XREF: sub_0_2913+14 j
                                   loc_0_2930:
                                                                                     a, 3(iy)
3(ix)
NC, loc_0_293B
                                                                     ld
                                                                     sub
                                                                     qį
2939 ED 44
293B
293B
293B 94
                                                                     neg
                                    loc_0_293B:
                                                                                                                                                                        ; CODE XREF: sub_0_2913+23 j
                                                                     sub
293C DA 45 29
293F DD 96 09
2942 D2 4C 29
                                                                                     C, loc_0_2945
9(ix)
NC, loc_0_294C
                                                                     jp
sub
                                                                     jр
2942 D2 4C
2945
2945
2945 3E 01
2947 DD E1
2949 33
                                   loc_0_2945:
                                                                                                                                                                        ; CODE XREF: sub_0_2913+29 j
                                                                                     a, #1
ix
                                                                     ld
                                                                    pop
inc
inc
          33
33
                                                                                      sp
 294A 33
294B C9
294C
294C
                                                                                     sp
                                   loc_0_294C:
                                                                                                                                                                        ; CODE XREF: sub_0_2913+6<sup>†</sup> j ; sub_0_2913+1A<sup>†</sup> j ...
                                                                     add
                                                                                     ix, de
 294C
 294E 10 C5
                                                                     djnz
xor
                                                                                     loc_0_2915
 2950 AF
2951 DD E1
                                                                                     a
ix
                                                                     pop
 2953 C9
                                   ; End of function sub_0_2913
```

```
2953
2954
2954
2954
2954
2954
2954
2956
2956
2957
CD 74 29
2950 32 18 62
2950 F7
2952 0F
2952 0F
2952 0F
2952 0F
2952 0F
2952 F7
2957 CD 74
2967 CB 01
2967 CB 01
2967 CB 01
2968 CB
2
                                                   ; SUBROUTINE
                                                                                                                                                                                                                                                ; CODE XREF: sub 0 1AC3+171 p
                                                   sub_0_2954:
                                                                                                                          a, #0xB
0x30
sub_0_2974
                                                                                                  ld
                                                                                                  rst
call
                                                                                                                                                                                                                                                 ; return if level bit not set
                                                                                                   ld
                                                                                                                          (unk_0_6218), a
                                                                                                  rrca
rrca
ld
                                                                                                                           (digital_snd_tmr_barrel_jump_priz), a
                                                                                                  ld
and
ret
                                                                                                  cp
jp
ld
                                                                                                                          Z, loc_0_296F
1(ix), #1
                                                                                                   ret
                                                   loc_0_296F:
                                                                                                                                                                                                                                                 ; CODE XREF: sub_0_2954+13 j
                                                                                                                          0x11(ix), #1
                                                                                                  ld
 2973 C9
2973
2973
2974
                                                                                                  ret
                                                   ; End of function sub_0_2954
                                                                                                SUBROUTINE
sub_0_2974:
                                                                                                                                                                                                                                                ; CODE XREF: sub_0_2954+31p
                                                                                                                          iy, #mario_alive_flag
a, (mario_x_coord)
                                                                                                   1d
                                                                                                  ld
ld
                                                                                                                          c, a
hl, #0x408
                                                                                                   ld
                                                                                                  ld
ld
ld
                                                                                                                          b, #2
de, #0x10
ix, #unk_0_6680
                                                                                                                                                                                                                                                ; hammer character data
                                                                                                   call
                                                                                                                          sub 0 2913
                                                   ret
; End of function sub_0_2974
                                                                       SUBROUTINE
                                                   sub 0 298C:
                                                                                                                                                                                                                                               ; CODE XREF: sub 0 3202+3C-p
                                                                                                                         hl, (unk_0_63C8)
a, 1
a, #0xE
1, a
                                                                                                  ld
ld
                                                                                                   add
                                                                                                   ld
ld
                                                                                                                          d, (hl)
                                                                                                   inc
ld
                                                                                                                         a, (hl)
a, #0xC
                                                                                                   add
ld
                                                                                                                          e, a
de, hl
2999 EB
299A CD F0 2F
299D 7E
299E FE B0
29A0 DA AC 29
29A3 E6 OF
29A7 D2 AC 29
29AA AF
20AR C9
                                                                                                   ex
                                                                                                  call
ld
cp
jp
and
                                                                                                                          get_tilemap_addr_from_coords
a, (h1)
#0xB0;
                                                                                                                                  loc 0 29AC
                                                                                                                           C, 1
#0xF
                                                                                                   cp
jp
                                                                                                                          NC, loc_0_29AC
                                                                                                   xor
29AA AF
29AB C9
29AC
29AC
29AC
29AC 3E 01
29AC
29AE C9
                                                  loc_0_29AC:
                                                                                                                                                                                                                                                 ; CODE XREF: sub_0_298C+14\uparrow j; sub_0_298C+1B\uparrow j
                                                                                                  ld
                                                                                                                          a, #1
                                                                                                  ret
 29AE
29AE
29AF
29AF
                                                   ; End of function sub_0_298C
                                                   ; SUBROUTINE
29AF
29AF
29AF
29AF
29AF 3E 04
                                                   sub_0_29AF:
                                                                                                                        a, #4
0x30
iy, #mario_alive_flag
a, (mario_x_coord)
c, a
                                                                                                                                                                                                                                                ; CODE XREF: sub_0_2B1C+7|p
                                                                                                   ld
29AF 3E 04
29B1 F7
29B2 FD 21 00 62
29B6 3A 05 62
29B9 4F
29BA 21 08 04
29BD CD 22 2A
29C0 A7
29C1 CA 20 2A
29C4 3E 06
29C6 90
29C7
29C7
                                                                                                  rst
ld
ld
ld
                                                                                                                                                                                                                                                 ; return if level bit not set
                                                                                                  ld
call
                                                                                                                                     #0~408
                                                                                                                          sub_0_2A22
                                                                                                                          a
Z, loc_0_2A20
                                                                                                   and
                                                                                                   jp
ld
                                                                                                   sub
 29C7
29C7 CA DO 29
29CA DD 19
29CC 3D
                                                   loc_0_29C7:
                                                                                                                                                                                                                                                ; CODE XREF: sub 0 29AF+1E-j
                                                                                                                          Z, loc_0_29D0 ix, de
                                                                                                  jp
add
                                                                                                   dec
 29CD C3 C7 29
29D0
29D0
                                                                                                   jр
                                                                                                                          loc 0 29C7
29D0 D 7E 05
29D0 D 7E 05
29D3 D6 04
29D5 57
29D6 3A 0C 62
29D9 C6 05
29DB BA
29DC D2 EE 29
29DF 7A
29E0 3C 05
29E5 3E 01
29E7 47
29E8 32 98 63
29EC 33
                                                                                                                                                                                                                                                ; CODE XREF: sub 0 29AF+181i
 29D0
                                                   loc 0 29D0:
                                                                                                                         a, 5(ix)
#4
d, a
                                                                                                   1d
                                                                                                  sub
ld
ld
                                                                                                                          a, (ma
a, #5
d
                                                                                                                                   (mario_y_before_jump)
                                                                                                  add
cp
                                                                                                                                                                                                                                                 ; check if on or below elevator
                                                                                                                          NC, loc_0_29EE
                                                                                                   jp
ld
                                                                                                                                  ď
                                                                                                  sub
ld
ld
ld
ld
                                                                                                                           (mario_x_coord), a
                                                                                                                                                                                                                                                ; flag on elevator
                                                                                                                          a, #1
b, a
                                                                                                                            (mario_on_elevator), a
                                                                                                   inc
                                                                                                                          sp
 29EC
                                                                                                   inc
 29ED C9
```

```
29EE
 29EE
; CODE XREF: sub_0_29AF+2D<sup>†</sup>j; collide with side of elevator
                                  loc_0_29EE:
                                                                                  a, (mario_y_before_jump)
#0xE
                                                                  ld
sub
                                                                  cp
jp
ld
                                                                                  NC, loc_0_2A1B
                                                                                  a, (unk_0_6210)
                                                                                  a, (mario_y_coord)
Z, loc_0_2A08
                                                                  and
ld
29FB A7
29FB A0 03 62
29FF CA 08 2A
2A01 F6 07
2A03 D6 04
2A05 C3 0E 2A
2A08
2A08
2A08
2A08
2A08 D6 08
2A0A F6 07
2A0C C6 04
2A0E
2A0E
2A0E
2A0E
2A0E
2A11 32 4C 69
2A14 3E 01
2A16 06 00
2A18 33
2A19 33
2A19 33
2A19 33
2A18
2A1B
2A1B
                                                                  jp
or
                                                                  sub
                                                                  jр
                                                                                  loc 0 2A0E
                                                                                                                                                                  ; CODE XREF: sub_0_29AF+4F<sup>†</sup>j
                                  loc 0 2A08:
                                                                  sub
                                                                 or
add
                                                                                  a, #4
                                  loc_0_2A0E:
                                                                                                                                                                 ; CODE XREF: sub_0_29AF+56 j
                                                                                  (mario_y_coord), a
(soft_sprite_ram+0x4C), a
                                                                  ld
                                                                                  a, #1
b, #0
sp
                                                                  ld
                                                                  ld
inc
                                                                  inc
                                                                                  sp
                                                                  ret
                                  loc_0_2A1B:
                                                                                                                                                                 ; CODE XREF: sub_0_29AF+45↑j
2A1B AF 2A1C 32 00 62 2A1F C9 2A20 2A20 2A20 47 2A21 C9
                                                                  xor
ld
                                                                                  (mario_alive_flag), a
                                                                  ret
                                  loc_0_2A20:
                                                                                                                                                                  ; CODE XREF: sub_0_29AF+12†j
ld
                                                                                  b, a
                                                                  ret
                                  ; End of function sub_0_29AF
                                                                 SUBROUTINE
                                  sub 0 2A22:
                                                                                                                                                                 ; CODE XREF: sub 0 29AF+E p
                                                                                  b, #6
de, #0x10
ix, #unk_0_6600
                                                                  14
                                                                  ld
ld
                                                                  call
                                                                                  sub 0 2913
                                  ret; End of function sub_0_2A22
                                                  SUBROUTINE
2A2F
2A2F
2A2F
2A2F
2A2F
D 7E 03
2A2F
2A32 67
2A33 DD 7E 05
2A36 C6 04
2A38 6F
2A39 E5
2A3A CD F0 2F
2A3D D1
2A3E 7E
2A3F FE B0
2A41 DA 7B 2A
2A44 E6 0F
2A46 FC 08
2A48 D2 7B 2A
2A48 D2 7B 2A
2A48 D2 7B 2A
2A48 TE
2A4C FE C0
2A4E CA 7B 2A
2A51 DA 69 2A
2A51 DA 69 2A
2A54 FD D0
2A56 DA 6E 2A
2A59 FE E0
2A58 DA 63 2A
                                  sub_0_2A2F:
                                                                                                                                                                  ; CODE XREF: sub_0_1F72+E5<sup>†</sup>p
; sub_0_1F72+188<sup>†</sup>p
                                                                  ld
ld
ld
                                                                                 a, 3(ix)
h, a
a, 5(ix)
a, #4
l, a
                                                                  add
ld
                                                                 push
call
pop
ld
                                                                                  hl
                                                                                  get_tilemap_addr_from_coords
de
a, (hl)
                                                                                  a, (hl)
#0xB0;
                                                                  cp
jp
and
                                                                                  C, loc_0_2A7B
#0xF
                                                                  ср
                                                                                  NC, loc_0_2A7B
a, (h1)
#0xC0; 'L'
Z, loc_0_2A7B
                                                                  jp
ld
cp
jp
cp
jp
                                                                                  C, loc_0_2A69
#0xD0 ; 'ŏ'
                                                                                  "0XDU; 'Ŏ'
C, loc_0_2A6E
#0xE0; 'Ó'
                                                                  cp
jp
cp
2A5B DA 63 2A
2A5E FE FO
2A60 DA 6E 2A
                                                                                    , loc_0_2A63
                                                                                  #0xF0; '-'
C, loc_0_2A6E
2A60 DA 6E 2A
2A63
2A63 E6 0F
2A65 3D
2A66 C3 72 2A
                                  loc_0_2A63:
                                                                                                                                                                  ; CODE XREF: sub_0_2A2F+2C<sup>†</sup>j
                                                                                   #0xF
                                                                                   loc 0 2A72
                                                                  qŗ
 2A69
2A69
2A69
                                  loc_0_2A69:
                                                                                                                                                                  ; CODE XREF: sub_0_2A2F+22 j
2A69 3E FF
2A6B C3 72 2A
2A6E
2A6E
                                                                  1d
                                                                                  a, #0xFF
loc_0_2A72
2A6E 2A6E 2A6E 6 0F 2A6E 2A70 D6 09 2A72 2A72 4F 2A72 2A73 7B 2A76 81 2A77 BB 2A78 DA 7D 2A 2A7B 2A7B AF 2A7B AF 2A7B AF 2A7B CA7D C9 2A7D
                                                                                                                                                                  ; CODE XREF: sub_0_2A2F+27†j
; sub_0_2A2F+31†j
                                  loc_0_2A6E:
                                                                                   #0xF
                                                                  sub
                                                                                  #9
                                  loc_0_2A72:
                                                                                                                                                                  ; CODE XREF: sub_0_2A2F+37<sup>†</sup> j
; sub_0_2A2F+3C<sup>†</sup> j
                                                                                  c, a
a, e
#0xF8
                                                                  ld
                                                                  ld
and
add
                                                                                              ; (0)
                                                                                  C, loc_0_2A7D
                                  loc_0_2A7B:
                                                                                                                                                                  ; CODE XREF: sub_0_2A2F+12 j
                                                                                                                                                                  ; sub_0_2A2F+19<sup>†</sup>j ...
                                                                                  а
                                                                  ret
 2A7D
 2A7D
```

```
loc_0_2A7D:
                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_2A2F+49 j
 2A7D
2A7D D6 04
2A7F DD 77 05
2A82 3E 01
2A84 C9
                                                                                                        sub
                                                                                                        ld
ld
                                                                                                                                 5(ix), a
a, #1
                                                                                                        ret
; End of function sub_0_2A2F
                                                      ; SUBROUTINE
                                                                                                                                                                                                                                                               ; CODE XREF: 0000:19A1 p
                                                      sub_0_2A85:
                                                                                                        ld
                                                                                                                                 a, (mario_climbing)
                                                                                                        and
ret
ld
                                                                                                                                                                                                                                                               ; climbing?
; yes, return
                                                                                                                                 NZ
                                                                                                                                 a, (mario_jumping)
2A8D A7
2A8E C0
2A8F 3A 98 63
2A92 FE 01
2A94 C8
2A95 3A 03 62
2A98 B6 03
2A9A 67
2A9B 3A 05 62
2A9B C6 0C
2AA0 6F
2AA1 E5
2AA2 CD F0 2F
2AA5 D1
2AA6 7E
2AA7 FE B0
2AA9 BA 42
                                                                                                                                                                                                                                                               ; jumping?
; yes, return
                                                                                                        and
                                                                                                                                 a, (mario_on_elevator)
                                                                                                        ret
ld
                                                                                                                                                                                                                                                                ; on elevator?
                                                                                                        cp
ret
                                                                                                                                 Z
                                                                                                                                                                                                                                                                ; yes, return
                                                                                                        ld
sub
ld
ld
                                                                                                                                          (mario_y_coord)
                                                                                                                                 h, a
                                                                                                                                 a, (mario_x_coord)
a, #0xC
1, a
                                                                                                        add
ld
                                                                                                       push
call
pop
ld
                                                                                                                                 hl
                                                                                                                                 get_tilemap_addr_from_coords
de
                                                                                                                                          (hl)
                                                                                                                                 a, (hl)
#0xB0;
                                                                                                        ср
2AA9 DA B4 2A
2AAC E6 OF
2AAE FE 08
2ABO D2 B4 2A
                                                                                                        jp
and
                                                                                                                                         loc_0_2AB4
                                                                                                                                  C, 1
#0xF
                                                                                                        ср
                                                                                                                                 #8
NC, loc_0_2AB4
                                                                                                        jр
2AB3 C9
2AB4
2AB4
2AB4
2AB4
2AB4 7A
2AB5 E6 07
2AB7 CA CD 2A
2ABA 01 20 00
2ABD ED 42
2ABF 7F
                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_2A85+24†j; sub_0_2A85+2B†j
                                                     loc 0 2AB4:
                                                                                                                                 a, d
#7
Z, loc_0_2ACD
                                                                                                        ld
                                                                                                        and
                                                                                                        jp
ld
sbc
                                                                                                                                 bc, #0x20;
hl, bc
2ABF 7E
2AC0 FE B0
2AC2 DA CD 2A
2AC5 E6 0F
2AC7 FE 08
                                                                                                                                           (h1)
                                                                                                                                 a, (h)
#0xB0
                                                                                                        cp
jp
and
                                                                                                                                  C, loc_0_2ACD
#0xF
                                                                                                        cp
jp
ret
 2AC9 D2 CD 2A
2ACC C9
2ACD
                                                                                                                                 NC, loc_0_2ACD
2ACD
2ACD
2ACD 3E 01
2ACD
                                                     loc_0_2ACD:
                                                                                                                                                                                                                                                                ; CODE XREF: sub_0_2A85+32<sup>†</sup> j ; sub_0_2A85+3D<sup>†</sup> j ...
                                                                                                                                       , #1
                                                                                                        ld
2ACF 32 21 62
2AD2 C9
2AD2
2AD2
                                                                                                        ld
                                                                                                                                 (unk_0_6221), a
                                                      ret; End of function sub_0_2A85
2AD2 2AD3 2AD3 2AD3 2AD3 2AD3 2AD3 2AD6 47 2AD7 3A 05 62 2AD7 FE 78 2AD7 FE 78 2AD7 FE C8 2AD7 FE C
                                                                                                      SUBROUTINE
                                                      sub_0_2AD3:
                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_25F2+C\p
                                                                                                                                a, (mario_y_coord)
b, a
                                                                                                        ld
ld
ld
                                                                                                                                           (mario_x_coord)
                                                                                                        cp
jp
                                                                                                                                          loc_0_2AEA
                                                                                                        ср
                                                                                                                                 Z, loc_0_2AF6
#0xC8; L
                                                                                                        jp
cp
jp
                                                                                                                                 Z, loc_0_2AF0
2AEA
2AEA
2AEA
2AEA
                                                      loc_0_2AEA:
                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_2AD3+9^j
               3A A3 63
                                                                                                        ld
                                                                                                                                          (unk 0 63A3)
2AEA 3A A3 03
2AED C3 02 2B
2AF0
2AF0
                                                                                                                                 loc_0_2B02
                                                                                                                                                                                                                                                               ; CODE XREF: sub 0 2AD3+131i
 2AF0
                                                      loc_0_2AF0:
2AF0 2AF3 C3 02 2B 2AF6 2AF6 2AF6 2AF6 2AF6 78 2AF7 FE 80 2AF9 3A A5 63 2AFC D2 02 2B 2AFF 3A A4 63 2B02 2B02
                                                                                                        ld
                                                                                                                                 a, (unk_0_63A6)
loc_0_2B02
                                                                                                        jр
                                                      loc_0_2AF6:
                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_2AD3+E^j
                                                                                                                                 a, b
#0x80 ; 'Ç'
                                                                                                        ld
                                                                                                        cp
ld
                                                                                                                                 a, (unk_0_63A5)
NC, loc_0_2B02
a, (unk_0_63A4)
2B02
2B02
2B02 80
2B02
                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_2AD3+1A<sup>†</sup> j
; sub_0_2AD3+20<sup>†</sup> j ...
                                                     loc_0_2B02:
2802 2803 32 03 62 2806 32 4C 69 2809 CD 1F 24 280C 21 03 62 280F 1D 2810 CA 18 2B 2813 15 2814 CA 1A 2B 2818 2B18 2B18 2B18
                                                                                                        add
                                                                                                                                 a, b
                                                                                                                                 (mario_y_coord), a
(soft_sprite_ram+0x4C), a
sub_0_241F
                                                                                                        ld
ld
call
ld
                                                                                                                                 hl, #mario y coord
                                                                                                        dec
                                                                                                                                 e
Z, loc_0_2B18
d
                                                                                                        jp
dec
                                                                                                                                 Z, loc_0_2B1A
                                                                                                        jр
                                                                                                                                                                                                                                                               ; CODE XREF: sub 0 2AD3+3D1 j
                                                     loc_0_2B18:
 2B18
 2B18 35
2B19 C9
2B1A
                                                                                                                                 (hl)
 2B1A
                                                     loc_0_2B1A:
                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_2AD3+41<sup>†</sup> j
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
2B1A 34
                                                        (hl)
2B1B C9
                                             ret
2B1B
2B1B
2B1C
2B1C
2B1C
2B1C
2B1C
2B1C
                       ; End of function sub_0_2AD3
                                           SUBROUTINE
                       sub_0_2B1C:
                                                                                                               ; CODE XREF: sub_0_1AC3+142\p
2B1C
2B1C DD 21 00 62
2B20 CD 29 2B
2B23 CD AF 29
2B26 AF
2B27 47
2B28 C9
2B28
2B28
                                             ld
                                                        ix, #mario_alive_flag
                                             call
                                                        sub_0_2B29
sub_0_29AF
                                             xor
                                             1d
                                                        b, a
                       ret; End of function sub_0_2B1C
SUBROUTINE
                        sub_0_2B29:
                                                                                                               ; CODE XREF: sub_0_2B1C+4\(^1\)p
                                             ld
                                                        a, (level_type)
                                             dec
                                             jp
ld
ld
                                                        NZ. loc 0 2B53
                                                             (mario_y_coord)
                                                        a, (m
a, #7
1, a
                                                            (mario_x_coord)
                                             ld
                                             add
                                             ld
call
and
                                                        sub_0_2B9B
                                             jp
ld
                                                        Z, loc_0_2B51
                                             sub
                                             cp
jp
ld
                                                        NC, loc_0_2B74
                                             sub
                                                        (mario x coord), a
                                             ld
                                             1d
                                                                                                               ; CODE XREF: sub 0 2B29+151i
                       loc_0_2B51:
                                                        hl
loc_0_2B53:
                                                                                                               ; CODE XREF: sub_0_2B29+4<sup>†</sup> j
                                             ld
                                                        a, (mario_y_coord)
                                                        #3
                                             sub
                                             ld
ld
add
                                                        a, (mario_x_coord)
                                             ld
                                             call
                                                         sub_0_2B9B
                                             ср
                                             jp
ld
add
ld
                                                        Z, loc_0_2B7A
                                                        a, d
a, #7
h, a
                                             call
                                                        sub_0_2B9B
                                             and
                                                        loc 0 2B7A
                                             jр
                       loc_0_2B74:
                                                                                                               ; CODE XREF: sub_0_2B29+1C j
                                                        a, #0
b, #0
hl
                                             ld
                                             ld
                                             pop
                                             ret
2B7A
2B7A
2B7A
2B7A 3A 10 62
                       loc_0_2B7A:
                                                                                                               ; CODE XREF: sub_0_2B29+3B<sup>†</sup>j; sub_0_2B29+48<sup>†</sup>j
                                                        a, (unk_0_6210)
a
2B7A 3A 10 62

2B7D A7

2B7E 3A 03 62

2B81 CA 8B 2B

2B84 F6 07

2B86 D6 04

2B88 C3 91 2B
                                             ld
and
ld
                                                            (mario_y_coord)
                                                        a, (mario_y_co
Z, loc_0_2B8B
                                             jp
or
sub
                                                        loc_0_2B91
                                             qŗ
2B8B
2B8B
2B8B
2B8B D6 08
2B8D F6 07
                       loc_0_2B8B:
                                                                                                               ; CODE XREF: sub_0_2B29+581j
                                             sub
2B8F C6 04
2B91
2B91
                                             add
                                                        a, #4
                       loc_0_2B91:
                                                                                                               ; CODE XREF: sub_0_2B29+5F<sup>†</sup>j
2B91 32 03 62
2B94 32 4C 69
2B97 3E 01
2B99 E1
                                             1d
                                                        (mario_y_coord), a
(soft_sprite_ram+0x4C), a
                                             ld
ld
                                                        a, #1
hl
                                             pop
2B9A C9
2B9A
2B9A
                       ret
; End of function sub_0_2B29
2B9B
2B9B
2B9B
2B9B
                        ; SUBROUTINE
```

...
get_tilemap_addr_from_coords
de

; CODE XREF: sub_0_2B29+111p

; sub_0_2B29+361p ...

2B9B 2B9B E5 2B9B

2BAD 7E 2BAE FE CO

2B9B 2B9C CD F0 2F 2B9F D1 2BA0 7E 2BA1 FE B0

2BA3 DA D9 2B 2BA6 E6 OF 2BA8 FE 08 2BAA D2 D9 2B sub_0_2B9B:

push

call pop ld

ср

jp and cp

jp ld a, (hl) #0xB0;

C, loc_0_2BD9 #0xF

#8 NC, loc_0_2BD9

a, (hl) #0xC0; 'L'

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
2BB0 CA D9 2B
                                                                    Z, loc_0_2BD9
                                                       jp
cp
jp
2BB3 DA DC 2B
                                                                         loc_0_2BDC
2BB3 DA DC 2B
2BB6 FE D0
2BB8 DA CB 2B
2BBB FE E0
                                                                    #0xD0
                                                                    #UXDU; 'Ó'
C, loc_0_2BCB
#0xE0; 'Ó'
                                                       ср
2BBD FE EU
2BBD DA C5 2B
2BC0 FE F0
2BC2 DA CB 2B
2BC5
                                                       jp
cp
jp
                                                                     C, loc_0_2BC5
                                                                    C, loc_0_2BCB
loc_0_2BC5:
                                                                                                                                       ; CODE XREF: sub 0 2B9B+221j
                                                       and
dec
                                                                    #0xF
                                                                    loc_0_2BCF
                                                       jр
2BCB
2BCB
2BCB
2BCB E6 OF
                                                                                                                                       ; CODE XREF: sub_0_2B9B+1D<sup>†</sup> j ; sub_0_2B9B+27<sup>†</sup> j
                            loc_0_2BCB:
2BCB E0 0F
2BCB 2BCD D6 09
2BCF
                                                                    #0xF
2BCF
                            loc_0_2BCF:
                                                                                                                                       ; CODE XREF: sub 0 2B9B+2D1i
2BCF 4F
2BD0 7B
                                                       ld
ld
                                                                    c, a
a, e
#0xF8; '°'
2BD1 E6 F8
                                                       and
2BD3 81
2BD4 4F
2BD5 BB
2BD6 DA E1 2B
                                                                    a, c
c, a
e
                                                       add
                                                       ld
cp
                                                                    C, loc 0 2BE1
                                                       jp
2BD9
2BD9
2BD9
2BD9 AF
2BD9
                                                                                                                                        ; CODE XREF: sub_0_2B9B+8<sup>†</sup>j; sub_0_2B9B+F<sup>†</sup>j ...
                            loc_0_2BD9:
                                                       xor
2BDA 47
2BDB C9
2BDC
2BDC
                                                       1d
                                                                    b, a
2BDC
2BDC 7B
2BDC 7B
2BDD E6 F8
2BDF 3D
2BE0 4F
2BE1
2BE1
                            loc_0_2BDC:
                                                                                                                                       ; CODE XREF: sub_0_2B9B+18 j
                                                       ld
and
                                                                    a, e
#0xF8 ; '°'
                                                       dec
                                                       ld
                            loc 0 2BE1:
                                                                                                                                       ; CODE XREF: sub 0 2B9B+3B1 j
2BE1 3A 0C 62
2BE4 DD 96 05
2BE7 83
2BE8 B9
                                                       ld
                                                                         (mario_y_before_jump)
                                                                    5(ix)
                                                       sub
add
                                                                    a, e
                                                       ср
                                                                    C
Z, loc_0_2BEF
NC, loc_0_2BF8
2BE9 CA EF 2B
2BEC D2 F8 2B
2BEF
                                                       qį
                            loc_0_2BEF:
                                                                                                                                       ; CODE XREF: sub 0 2B9B+4E1j
2BEF
2BEF 79
2BF0 D6 07
2BF2 32 05 62
2BF5 C3 FD 2B
                                                       ld
                                                       sub
                                                                     π,
(mario_x_coord), <mark>a</mark>
                                                       ld
                                                       jp
                                                                    loc 0 2BFD
2BF8
2BF8
2BF8
2BF8
                                                                                                                                       ; CODE XREF: sub_0_2B9B+511j
                            loc_0_2BF8:
2BF8 3E 02
2BFA 06 00
2BFC C9
2BFD
                                                       1d
2BFD
2BFD
2BFD 3E 01
2BFF 47
2C00 E1
2C01 E1
2C02 C9
                            loc_0_2BFD:
                                                                                                                                       ; CODE XREF: sub_0_2B9B+5A j
                                                                    b, a
                                                       ld
                                                       pop
                                                                    hl
                                                       ret
2C02
                            ; End of function sub_0_2B9B
2C02
2C03
2C03
                                                    SUBROUTINE
2C03
2C03
2C03
2C03 3E 01
                            sub_0_2C03:
                                                                                                                                        ; CODE XREF: 0000:19891p
                                                                    a, #1
0x30
0x10
                                                       1d
2C05 F7
2C06 D7
2C07 3A 93 63
2C0A OF
                                                       rst
rst
ld
                                                                                                                                       ; return if level bit not set
; return if mario not alive
                                                                    a, (barrel_deployment)
                                                       rrca
2C0B D8
2C0C 3A B1 62
2C0F A7
                                                       ret
ld
and
                                                                    a, (unk_0_62B1)
                                                                    a
Z
2C10 C8
                                                       ret
       4F
3A B0 62
D6 02
B9
                                                       ld
ld
                                                                    c, a
a, (unk_0_62B0)
#2
                                                       sub
                                                       cp
jp
ld
bit
                                                                    C, loc_0_2C7B
a, (unk_0_6382)
1, a
2C18 DA 7B 2C
2C1B 3A 82 63
2C1E CB 4F
2C1E CB 4F
2C20 C2 86 2C
2C23 3A 80 63
2C26 47
2C27 3A 1A 60
                                                       jp
ld
ld
                                                                    NZ, loc_0_2C86
a, (unk_0_6380)
                                                                    a, (1
b, a
                                                                          (gen_purpose_timer)
                                                       ld
2C2A E6 1F
2C2C
2C2C
                                                       and
                            loc_0_2C2C:
                                                                                                                                       ; CODE XREF: sub_0_2C03+2D|j
2C2C B8
                                                       Cρ
2C2C B8
2C2D CA 33 2C
2C30 10 FA
2C32 C9
2C33
2C33
2C33
2C33
2C33
3A B0 62
                                                                    Z, loc_0_2C33
loc_0_2C2C
                                                       jp
djnz
                                                       ret
                            loc_0_2C33:
                                                                                                                                       ; CODE XREF: sub_0_2C03+2Afj
2C33 3A B0 62
2C36 CB 3F
2C38 B9
2C39 DA 41 2C
2C3C 3A 19 60
2C3F 0F
                                                                    a, (unk_0_62B0)
a
                                                       1d
```

srl cp

jp ld

2C40 D0 2C41

2C41 CD 57 00

rrca

ret

call

loc 0 2C41:

C, loc_0_2C41

rand

a, (random_no+1)

; CODE XREF: sub 0 2C03+361 j

```
2C44 E6 OF
2C46 C2 86 2C
                                                          and
                                                                        NZ, loc_0_2C86
 2C49
2C49
2C49
2C49 3E 01
                              loc_0_2C49:
                                                                                                                                              ; CODE XREF: sub_0_2C03+7B|j
                                                                        a, #1
 2C4B
2C4B
                              loc_0_2C4B:
                                                                                                                                              ; CODE XREF: sub_0_2C03+80|j
2C4B
2C4B 32 82 63
2C4E 3C
2C4F
                                                                        (unk_0_6382), a
                                                          inc
2C4F 2C4F 8 63 2C52 3E 01 2C54 8 9 2C58 8C 9C5C D6 08 2C56 11 20 00 64 2C67 0 6 05 2C69 7E
                              loc_0_2C4F:
                                                                                                                                              ; CODE XREF: sub_0_2C03+89|j
                                                                        (unk_0_638F), a
                                                          ld
                                                                        (unk_0_6392)
                                                          ld
                                                                        a, (unk_0_62B2)
                                                          ср
                                                                        NZ
                                                          ret
                                                          sub
ld
ld
                                                                         (unk_0_62B2), a
                                                                        de, #0x20; hl, #unk_0_6400
                                                          ld
                                                                                                                                             ; fireball character data
                                                          ld
                             loc 0 2C69:
                                                                                                                                              ; CODE XREF: sub 0 2C03+6C-j
 2C69 7E
                                                          ld
                                                                        a, (hl)
2C69 7E

2C6A A7

2C6B CA 72 2C

2C6E 19

2C6F 10 F8

2C71 C9

2C72

2C72
                                                          and
jp
add
                                                                        a
Z, loc_0_2C72
                                                                        hl, de
loc_0_2C69
                                                          djnz
ret
2C72
2C72 3A 82 63
2C75 F6 80
2C77 32 82 63
                              loc_0_2C72:
                                                                                                                                              ; CODE XREF: sub 0 2C03+6811
                                                                        a, (unk_0_6382)
#0x80; 'Ç'
(unk_0_6382), a
                                                          ld
                                                          or
ld
2C7A C9
2C7B
2C7B
; CODE XREF: sub 0 2C03+151i
                              loc 0 2C7B:
                                                          add
                                                                        a, #2
                                                          ср
                                                                        Z, loc_0_2C49
                                                          jp
ld
                                                                        loc_0_2C4B
                                                          jp
                                                                                                                                              ; CODE XREF: sub_0_2C03+1D^{\dagger}j; sub_0_2C03+43^{\dagger}j
                              loc 0 2C86:
                                                                        (unk_0_6382), a
                                                          1d
                                                          ld
jp
                                                                        a, #3
loc_0_2C4F
                              ; End of function sub_0_2C03
2C8C
2C8F
2C8F
2C8F
                                                         SUBROUTINE
2C8F

2C8F

2C8F

2C8F 3E 01

2C91 F7

2C92 D7

2C93 3A 93 63

2C96 0F

2C97 DA 15 2D

2C9A 3A 92 63

2C9D 0F

2C9D 0F

2C9E D0

2C9F DD 21 00 67

2C9A 31 20 00

2C9A 31 20 00

2C9A 31 20 00
                              sub_0_2C8F:
                                                                                                                                              ; CODE XREF: 0000:1986 p
                                                                        a, #1
0x30
                                                          ld
                                                                                                                                              ; return if level bit not set ; return if mario not alive
                                                          rst
                                                          rst
                                                                        0x10
                                                          ld
rrca
                                                                        a, (barrel_deployment)
                                                                        C, loc_0_2D15
                                                          jp
ld
                                                                        a, (unk_0_6392)
                                                          rrca
                                                          ret
                                                          1d
                                                                        ix, #unk_0_6700
                                                          ld
ld
2CA8 DD 7E 00 2CAB 0F 2CAC DA B3 2C
                              loc_0_2CA8:
                                                                                                                                             ; CODE XREF: sub 0 2C8F+26-1
                                                          ld
                                                                        a, 0(ix)
                                                          rrca
                                                                       C. loc 0 2CB3
                                                          jр
                                                          rrca
jp
 2CAF OF
2CB7 UF
2CB0 D2 B8 2C
2CB3
2CB3
                                                                        NC, loc_0_2CB8
                                                                                                                                              ; CODE XREF: sub 0 2C8F+1D1i
                              loc_0_2CB3:
2CB3 DD 19
2CB5 10 F1
2CB7 C9
                                                                        ix, de loc_0_2CA8
                                                          add
                                                          djnz
2CB8 2CB8 2CB8 2CB8 DD 22 AA 62 2CBC DD 36 00 02 2CC2 3E 0A 2CC4 90 2CC5 87 2CC6 87 2CC7 5F 2CC7 5F 2CC8 21 80 69 2CCB 19
 2CB8
                                                                                                                                              ; CODE XREF: sub_0_2C8F+21 j
                                                                       (unk_0_62AA), ix
0(ix), #2
d, #0
a, #0xA
b
                                                          ld
ld
                                                          ld
ld
                                                          sub
                                                          add
add
ld
ld
                                                                       e, a
hl, #soft_sprite_ram+0x80
hl, de
(unk_0_62AC), hl
2CCB 21 80 69
2CCB 19
2CCC 22 AC 62
2CCF 3E 01
2CD1 32 93 63
2CD4 11 01 05
2CD7 CD 9F 30
2CDA 21 B1 62
2CDD 35
2CDE 02 E6 2C
2CE1 3E 01
2CE3 32 86 63
2CE6
                                                          add
                                                          ld
ld
                                                                        a, #1
(barrel_deployment), a
                                                          ld
                                                          ld
call
ld
                                                                        de, #0x501
queue_fg_vector_fn
hl, #unk_0_62B1
(hl)
                                                                                                                                             ; update_bonus_timer
                                                          dec
                                                                        NZ, loc_0_2CE6
a, #1
                                                                        (unk_0_6386), a
                                                          ld
2CE6
2CE6 7E
2CE7 FE 04
2CE9 D2 F6 2C
2CEC 21 A8 69
2CEF 87
                              loc_0_2CE6:
                                                                                                                                              ; CODE XREF: sub_0_2C8F+4F<sup>†</sup>j
                                                          ld
                                                          cp
jp
ld
                                                                        NC, loc_0_2CF6
hl, #soft_sprite_ram+0xA8
                                                                        a, a
a, a
e, a
                                                          add
 2CF0 87
                                                          add
 2CF1 5F
```

```
2CF2 16 00
                                                                    ld
                                                                                    d, #0
2CF4 19
2CF5 72
2CF6
2CF6
                                                                                    hl, de (hl), d
                                                                    add
                                                                                                                                                                     ; CODE XREF: sub_0_2C8F+5A^j; sideways barrel sprite tile
                                  loc_0_2CF6:
2CF6 DD 36 07 15
2CFA DD 36 08 0B
2CFE DD 36 15 00
2D02 3A 82 63
2D05 07
                                                                                   7(ix), #0x15
8(ix), #0xB
0x15(ix), #0
a, (unk_0_6382)
                                                                    ld
                                                                   ld
ld
ld
rlca
                                                                                    NC, loc_0_2D15
7(ix), #0x19
8(ix), #0xC
                                                                                                                                                                     ; sideways blue barrel sprite tile ; set blue palette for barrel
                                                                    ld
                                                                    ld
                                                                                    0x15(ix), #1
                                                                                                                                                                     ; CODE XREF: sub_0_2C8F+8<sup>†</sup>j; sub_0_2C8F+77<sup>†</sup>j
                                  loc_0_2D15:
2D15 21
2D15 2D18 35
2D19 C0
                                                                   ld
dec
ret
                                                                                   hl, #unk_0_62AF
(hl)
 2D1A 36 18
2D1C 3A 8F 63
2D1F A7
2D20 CA 51 2D
                                                                    ld
                                                                                    (hl), #0x18
                                                                                    a, (unk_0_638F)
a
Z, loc_0_2D51
                                                                   ld
and
                                                                    jp
ld
 2D23 4F
2D24 21 32 39
2D27 3A 82 63
2D2A 0F
                                                                    ld
ld
                                                                                   hl, #dk_throw_barrel_spr
a, (unk_0_6382)
                                                                    rrca
 2D2B DA 2F 2D
                                                                                    C, loc_0_2D2F
 2D2E DA
2D2E OD
2D2F
2D2F
2D2F
2D2F 79
2D30 87
2D31 87
2D32 87
2D33 4F
2D34 87
2D35 87
2D36 81
2D37 5F
2D38 16 00
2D3A 19
2D3B CD 4E 00
2D3E 21 8F 63
2D41 35
2D42 C2 51 2D
2D45 3E 01
2D47 32 AF 62
2D44 3A 82 63
2D40 D5 83 2D
                                  loc_0_2D2F:
                                                                                                                                                                    ; CODE XREF: sub_0_2C8F+9Cfj
                                                                                   a, c
a, a
a, a
c, a
a, a
                                                                   1d
                                                                   add
add
                                                                    add
                                                                   ld
add
add
                                                                    add
                                                                                    e, a
d, #0
hl, de
                                                                   ld
ld
                                                                    add
                                                                                    copy_sprites_2_11_data
h1, #unk_0_638F
(h1)
                                                                    call
                                                                    ld
dec
                                                                                    NZ, loc_0_2D51
                                                                    jp
ld
                                                                                   a, #1
(unk_0_62AF), a
a, (unk_0_6382)
                                                                    ld
ld
                                                                    rrca
2D4E DA 83 2D
2D51
2D51
                                                                                    C, loc_0_2D83
                                  loc_0_2D51:
                                                                                                                                                                     ; CODE XREF: sub_0_2C8F+91 j
2D51 2A A8 62
2D51
2D54
2D54
                                                                                                                                                                      ; sub_0_2C8F+B31j
                                                                   ld
                                                                                   hl, (unk_0_62A8)
                                                                                                                                                                     ; CODE XREF: sub_0_2C8F+FA-j
                                  loc_0_2D54:
2D54 7E
2D55 DD
2D59 ED
                                                                                    a, (h1)
ix, (unk_0_62AA)
de, (unk_0_62AC)
#0x7F; ' '
 2D55 DD 2A AA 62
2D59 ED 5B AC 62
2D5D FE 7F
2D5F CA 8C 2D
                                                                    ld
ld
                                                                   cp
jp
ld
and
                                                                                    Z, loc_0_2D8C
 2D62 4F
2D63 E6 7F
                                                                                     c, a
#0x7F ; ' '
                                                                                                                                                                     ; sprite data X coord
; sprite tile #
2D65 12
2D66 DD 7E 07
2D69 CB 79
2D6B CA 70 2D
2D6E EE 03
                                                                    ld
                                                                                    (de), a
a, 7(ix)
7, c
                                                                    14
                                                                                    Z, loc_0_2D70
                                                                    jр
                                                                    xor
2D6E EE 03

2D70

2D70

2D70 13

2D71 12

2D72 DD 77 07

2D75 DD 7E 08

2D78 13
                                                                                                                                                                     ; CODE XREF: sub_0_2C8F+DC j
                                   loc_0_2D70:
                                                                                                                                                                     ; sprite tile # (barrel)
; sprite tile #
                                                                                    (de), a
7(ix), a
a, 8(ix)
de
                                                                    1d
                                                                    ld
ld
                                                                    inc
2D78 13
2D79 12
2D7A 23
2D7B 7E
2D7C 13
2D7D 12
2D7E 23
2D7F 22
                                                                                   de (de), a hl a, (hl) de
                                                                   ld
inc
                                                                    inc
                                                                   ld
inc
                                                                                     (de), a
          23
22 A8 62
                                                                                    (unk_0_62A8), hl
                                                                    ld
 2D82 C9
                                                                    ret
2D82 C9
2D83
2D83
2D83
2D83
2D83 21 CC 39
2D86 22 A8 62
2D89 C3 54 2D
2D8C
2D8C
                                  loc_0_2D83:
                                                                                                                                                                     ; CODE XREF: sub 0 2C8F+BF1 j
                                                                                    hl, #barrel_falling_data
                                                                   ld
                                                                    ld
                                                                                    (unk_0_62A8), hl
loc_0_2D54
                                                                    jp
2D8C

2D8C

2D8C

2D8C 21 C3 39

2D8F 22 A8 62

2D92 DD 36 01 01

2D96 3A 82 63

2D99 0F
                                  loc_0_2D8C:
                                                                                                                                                                     ; CODE XREF: sub_0_2C8F+D0 j
                                                                                    hl, #barell_rolling_data
(unk_0_62A8), hl
                                                                    ld
                                                                   ld
ld
                                                                                    1(ix)
                                                                                    a, (unk_0_6382)
                                                                    rrca
                                                                                    C, loc_0_2DA5
1(ix), #0
2(ix), #2
 2D9A DA A5 2D
                                                                    jp
ld
2D9D DD 36 01 00
2DA1 DD 36 02 02
2DA5
 2DA5
2DA5 DD 36 00 01
2DA9 DD 36 0F 01
                                                                                                                                                                    ; CODE XREF: sub_0_2C8F+10Bfj
                                  loc_0_2DA5:
                                                                   ld
ld
                                                                                    0(ix), #1
0xF(ix), #1
2DA9 DD 36 0F
2DAD AF
2DAE DD 77 10
2DB1 DD 77 11
2DB4 DD 77 12
2DB7 DD 77 13
2DBA DD 77 14
2DBD 32 93 63
2DC0 32 92 63
                                                                    xor
ld
                                                                                    0x10(ix), a
                                                                   ld
ld
ld
                                                                                    0x11(ix), a
0x12(ix), a
                                                                                    0x13(ix), a

0x14(ix), a

(barrel_deployment), a

(unk_0_6392), a
                                                                   ld
ld
ld
                                                                    1d
                                                                                          (de)
                                                                                    a, (ue,
3(ix), a
 2DC4 DD 77 03
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
2DC7 13
2DC8 13
2DC9 13
2DCA 1A
2DCB DD 77 05
2DCE 21 5C 38
2DD1 CD 4E 00
2DD4 21 0B 69
2DD7 0E FC
2DD9 FF
                                                     inc
                                                                 de
                                                     inc
ld
ld
                                                                 de
                                                               a, (de)
5(ix), a
hl, #dk_normal_spr
copy_sprites_2_ll_data
hl, #soft_sprite_ram+0xB
c, #0xFC; '3'
                                                     ld
                                                    call
ld
ld
                                                                                                                                 ; sprite #2, x coord
                                                                                                                                 ; subtract 4 from x coord for 10 sprites
                                                     rst
2DDA C9
2DDA
2DDA
                            ; End of function sub_0_2C8F
2DDB
2DDB
2DDB
2DDB
                                                  SUBROUTINE
sub_0_2DDB:
                                                                                                                                 ; CODE XREF: 0000:1995 p
                                                                 a, #0xA
0x30
                                                                                                                                 ; return if level bit not set
                                                     rst
                                                     rst
                                                                 0x10
                                                                                                                                 ; return if mario not allive
                                                     ld
                                                                      (unk_0_6380)
                                                     and
                                                                 а
                                                     rra
                                                     ld
ld
                                                                 b, a
a, (level_type)
                                                     cp
jr
                                                                 NZ, loc_0_2DEE
                                                                                                                                ; CODE XREF: sub_0_2DDB+10 i
                           loc_0_2DEE:
2DEE 3E FE
2DF0 37
2DF1
2DF1
                                                     1d
                                                                 a, #0xFE; '"'
                                                     scf
; CODE XREF: sub 0 2DDB+18 -
                           loc 0 2DF1:
                                                    rra
and
djnz
                                                                  loc_0_2DF1
                                                                 b, a
a, (
b
                                                     ld
                                                    ld
and
                                                                      (gen_purpose_timer)
                                                                 NZ
                                                     ret
                                                                 a, #1
(unk_0_63A0), a
(unk_0_639A), a
                                                     ld
                                                     ld
ld
                                                     ret
                           ; End of function sub_0_2DDB
2E03
2E04
2E04
2E04
2E04
2E04
                                                   SUBROUTINE
sub_0_2E04:
                                                                                                                                 ; CODE XREF: 0000:198F<sup>†</sup>p
                                                                 a, #4
0x30
0x10
                                                     1d
                                                    rst
rst
                                                                                                                                 ; return if level bit not set
; return if mario not alive
                                                                 ix, #unk_0_6500
                                                     ld
                                                     1d
                                                                 iy, #soft_sprite_ram+0x80
b, #0xA
                                                                                                                                 ; CODE XREF: sub_0_2E04+7D|j; any active springs?
                           loc 0 2E12:
                                                     ld
                                                                 a, 0(ix)
                                                     rrca
                                                                 NC, loc_0_2EA7
                                                                                                                                 ; no, skip
                                                     jp
ld
                                                                 a, (gen_purpose_timer)
#0xF
                                                     and
                                                                 "VXF
NZ, loc_0_2E29
a, l(iy)
#7
                                                     jp
ld
                                                                                                                                 ; animate spring sprites
                                                     xor
                                                                 1(iy), a
                                                     ld
                                                                                                                                 ; CODE XREF: sub_0_2E04+1A j
                           loc_0_2E29:
2E29
2E29 DD 7E 0D
2E2C FE 04
2E2E CA 84 2E
2E31 DD 34 03
                                                                 a, 0xD(ix)
#4
Z, loc_0_2E84
3(ix)
                                                     1d
                                                     cp
jp
inc
2E31 DD 34 03
2E34 DD 34 03
2E37 DD 6E 0E
2E3A DD 66 0F
2E3D 7E
2E3E 4F
2E3F FE 7F
2E41 CA 9C 2E
2E44 23
2E45 DD 86 05
2E48 DD 77 05
                                                     inc
ld
ld
                                                                 3(ix)
                                                                 1, 0xE(ix)
h, 0xF(ix)
                                                     ld
                                                                 a, (hl)
                                                     ld
cp
jp
inc
                                                                 Z, loc_0_2E9C
hl
a, 5(ix)
                                                     add
ld
2E4B
2E4B
                                                                                                                                ; CODE XREF: sub 0 2E04+A0-j
                           loc 0 2E4B:
2E4B
2E4B DD 75 0E
2E4E DD 74 0F
2E51 DD 7E 03
2E54 FE B7
2E56 DA 6C 2E
2E59 79
2E5A FE 7F
                                                                 0xE(ix), 1
0xF(ix), h
a, 3(ix)
#0xB7; 'Å'
                                                     ld
                                                    ld
ld
                                                     cp
jp
ld
                                                                  C, loc_0_2E6C
                                                                  a, c
#0x7F ; ' '
                                                    cp
jp
ld
2E5A FE 7F
2E5C C2 6C 2E
2E5F DD 36 0D 04
2E63 AF
2E64 32 83 60
2E67 3E 03
2E69 32 84 60
2E6C
2E6C
                                                                 NZ, loc_0_2E6C
0xD(ix), #4
                                                                                                                                 ; stop timer
                                                     xor
                                                                  (digital_snd_tmr_coin_spring), a
                                                     ld
                                                     ld
                                                                                                                                 ; tmr=3
                                                                  (digital_snd_tmr_kong_fall), a
2E6C
2E6C DD 7E 03
2E6C
                                                                                                                                 ; CODE XREF: sub_0_2E04+521j
                           loc_0_2E6C:
                                                                                                                                 ; sub_0_2E04+58<sup>†</sup>j ...
```

; x corrd to sprite data

; y coord to sprite data ; CODE XREF: sub 0 2E04+A7-

; sub_0_2E04+CD|; 16 bytes/sprite; next spring data

; next sprite data

2E6C
2E6F FD 77 00
2E72 DD 7E 05
2E75 FD 77 03
2E78

2E78 11 10 00

2E78 DD 19

2E7D 1E 04 2E7F FD 19

2E78

3(ix) a, 3(in, 0(iy), a a, 5(ix)

a, 5(ix) 3(iy), a

de, #0x10 ix, de e, #4 iy, de

ld

ld

add

1d add

loc 0 2E78:

```
2E81 10 8F
                                                                                            loc_0_2E12
                                                                          djnz
 2E83 C9
2E84
2E84
2E84
                                                                                                                                                                                     ; CODE XREF: sub_0_2E04+2A1j
                                      loc_0_2E84:
 2E84 3E 03
2E86 DD 86 05
2E89 DD 77 05
2E8C FE F8
                                                                                            a, #3
a, 5(ix)
5(ix), a
#0xF8; '''
                                                                           ld
                                                                           add
                                                                           ld
                                                                           ср
2E8C FE F8
2E8E DA 6C 2E
2E91 DD 36 03 00
2E95 DD 36 00 00
2E99 C3 6C 2E
                                                                           jp
ld
ld
                                                                                            C, loc_v_.
3(ix), #0
0(ix), #0
- 0 2E6
                                                                                                 loc 0 2E6C
                                                                                            loc_0_2E6C
                                                                           jр
 2E9C
2E9C
2E9C
2E9C
2E9C 21 AA 39
                                       loc_0_2E9C:
                                                                                                                                                                                     ; CODE XREF: sub_0_2E04+3D<sup>†</sup> j
ZE9C 21 AA 39

ZE9F 3E 03

ZEA1 32 83 60

ZEA4 C3 4B ZE

ZEA7

ZEA7

ZEA7 06 63

ZEAA 0F 2EAE D2 78 ZE

ZEAB D2 78 ZE

ZEAE AF

ZEAF 32 96 63

ZEB2 DD 36 05 50

ZEBA CD 57 00

ZEBA CD 57 00

ZEBA CD 57 00

ZEBA CD 57 00

ZEBB CG F8
                                                                           ld
                                                                                            hl, #bouncing_spring_data
                                                                           ld
                                                                                            a, #3
(digital_snd_tmr_coin_spring), a
loc_0_2E4B
                                                                                                                                                                                     ; tmr=3
                                                                           jр
                                       loc_0_2EA7:
                                                                                                                                                                                     ; CODE XREF: sub_0_2E04+12 j
                                                                          ld
                                                                                           a, (unk 0 6396)
                                                                           rrca
                                                                           jp
xor
                                                                                            NC, loc_0_2E78
                                                                                           a (unk_0_6396), a 5(ix), #0x50; 'P' 0xD(ix), #1 rand
                                                                           ld
ld
                                                                           ld
                                                                          call
                                                                           and
                                                                                            #0xF
2EBD E6 OF
2EBF C6 F8
2EC1 DD 77 03
2EC4 DD 36 00 01
2EC8 21 AA 39
2ECB DD 75 0E
2ECE DD 74 0F
2ED1 C3 78 2E
                                                                                           #UXF8; '0'
3(ix), a
0(ix), #1
hl, #bouncing_spring_data
0XE(ix), 1
0XF(ix), h
                                                                          add
ld
ld
                                                                           ld
                                                                           ld
loc_0_2E78
                                                                                                                                                                                     ; end of spring routine
                                                                           jр
                                       ; End of function sub_0_2E04
                                                                        SUBROUTINE
                                      sub_0_2ED4:
                                                                                                                                                                                      ; CODE XREF: 0000:1998 p
                                                                                           a, #0xB
0x30
                                                                           ld
                                                                          rst
rst
ld
                                                                                                                                                                                     ; return if level bit not set
                                                                                                                                                                                     ; return if mario not alive; hammers in sprite ram
; hammer character data
                                                                                            0x10
de, #soft_sprite_ram+0x118
                                                                           1d
                                                                                            ix, #unk_0_6680
                                                                           ld
                                                                                            a, 1(ix)
                                                                           rrca
                                                                                            C, loc_0_2EED
                                                                           jp
ld
 2EE6 11 1C 6A
2EE9 DD 21 90 66
2EED
                                                                                            de, #soft_sprite_ram+0x11C
ix, #unk_0_6690
                                                                                                                                                                                     ; CODE XREF: sub_0_2ED4+F1j
                                      loc_0_2EED:
 2EED
0xE(ix), #0
0xF(ix), #0xF0;
a, (unk_0_6217)
                                                                           ld
                                                                           ld
ld
                                                                           rrca
                                                                           jp
xor
ld
                                                                                            NC, loc_0_2F97
                                                                                            a (unk_0_6218), a
                                                                                           (unk_0_6216), a
hl, #bg_music
(hl), #4
9(ix), #6
0xA(ix), #3
b, #0x1E
a, (mario_flipy_sprite_tile)
                                                                           ld
ld
                                                                          ld
ld
ld
2F09 DD 36 0A

2F0D 06 1E

2F0F 3A 07 62

2F12 CB 27

2F14 D2 1B 2F

2F17 F6 80

2F19 CB F8

2F1B

2F1B
                                                                          ld
sla
                                                                                            a
NC, loc_0_2F1B
                                                                           jp
or
                                                                                            #0x80 ; 'Ç
7, b
2F1B F6 08 2F1D 4F 2F1E 3A 94 63 2F21 CB 5F 2F28 CB C1 2F2A DD 36 09 05 2F2E DD 36 00 00 2F36 DD 36 0F F0 2F3A CB 79 2F3C CB 43 2F 2F3F DD 36 0E 10 2F3A CB 79 2F3C CB 43 2F 2F3F DD 36 0E 10 2F3A CB 79 2F3C CB 43 2F 2F3F DD 36 0E 10 2F3A 2F 2F3F DD 36 0E 10 2F3A CB 79 2F3C CB 43 2F 2F3F DD 36 0E 10 2F43 2F43 2F43 2F4
                                      loc_0_2F1B:
                                                                                                                                                                                    ; CODE XREF: sub_0_2ED4+40 j
                                                                          or
ld
ld
                                                                                            c, a
a, (unk_0_6394)
3, a
                                                                           bit
                                                                                            Z, loc_0_2F43
0, b
0, c
                                                                           jp
set
                                                                           set
                                                                                           0, c
9(ix), #5
0xA(ix), #6
0xF(ix), #0
0xE(ix), #0xF0; '-'
7, c
                                                                           ld
                                                                           ld
ld
                                                                           ld
bit
                                                                                            Z, loc_0_2F43
0xE(ix), #0x10
 2F43
2F43 79
2F43
2F44 32 4D 69
                                                                                                                                                                                     ; CODE XREF: sub_0_2ED4+4F^j; sub_0_2ED4+68^j;
                                      loc_0_2F43:
                                                                                            a, c
(soft_sprite_ram+0x4D), a
2F44 32 4D 69
2F47 0E 07
2F49 21 94 63
2F4C 34
2F4D C2 B7 2F
2F50 21 95 63
2F53 34
2F55 7C 2 B7
2F5A AF
2F5B 32 95 63
2F5B 32 17 62
2F61 DD 77 01
2F64 3A 03 62
2F67 BD 77 02
2F66 3A 07 62
2F66 3A 07 62
2F67 2D 36 00
                                                                           ld
                                                                          ld
ld
                                                                                            c, #7
hl, #unk_0_6394
(hl)
                                                                                           NZ, loc_0_2FB7
hl, #unk_0_6395
(hl)
                                                                           inc
                                                                          jp
ld
inc
ld
                                                                                           a, (hl)
#2
                                                                          cp
jp
xor
ld
                                                                                            NZ, loc_0_2FBE
                                                                                           a
(unk_0_6395), a
(unk_0_6217), a
1(ix), a
a, (mario_y_coord)
                                                                           ld
                                                                           ld
ld
                                                                           neg
                                                                                            0xE(ix), a
a, (mario_flipy_sprite_tile)
(soft_sprite_ram+0x4D), a
                                                                           ld
ld
ld
 2F72 DD 36 00 00
2F76 3A 89 63
                                                                                            0(ix), #0
a, (unk_0_6389)
                                                                           1d
```

```
2F7C
2F7C
2F7C EB
2F7C
2F7D 3A 03 62
                                                                                                                                                          ; CODE XREF: sub_0_2ED4+E0|j
; sub_0_2ED4+E7|j ...
                               loc_0_2F7C:
                                                                              a, (mario_y_coord)
a, 0xE(ix)
(h1), a
3(ix), a
                                                                                                                                                          ; calc hammer X
                                                               ld
2F7D 3A 03 62
2F80 DD 86 0E
2F83 77
2F84 DD 77 03
                                                               add
                                                               ld
ld
2F87 23
2F88 70
2F89 23
2F8A 71
                                                               inc
ld
inc
ld
                                                                              hl
                                                                              (h1), b
h1
(h1), c
                                                                             (fil), c
hl
a, (mario_x_coord)
a, 0xF(ix)
(hl), a
5(ix), a
2F8B 23
2F8C 3A 05 62
2F8F DD 86 0F
                                                               inc
ld
add
                                                                                                                                                          ; calc hammer Y
2F8F DD 86 0F
2F92 77
2F93 DD 77 05
2F96 C9
2F97
2F97 2F97 3A 18 62
2F9A 0F
2F9B DO 36 09
                                                               1d
                                                               ld
                                loc_0_2F97:
                                                                                                                                                          ; CODE XREF: sub_0_2ED4+25 j
                                                               ld
                                                                              a, (unk_0_6218)
                                                               rrca
                                                               ret
2F9B D0
2F9C DD 36 09 06
2FAO DD 36 0A 03
2FA4 3A 07 62
2FA7 07
2FA8 3E 3C
2FAA 1F
2FAB 47
                                                               ld
ld
                                                                              9(ix), #6
0xA(ix), #3
                                                                              a, (mario_flipy_sprite_tile)
                                                               ld
rlca
                                                               ld
rra
ld
                                                                              a, #0x3C ; '<'
                                                                                                                                                          ; hammer tile #
                                                                              b, a
2FAC 0E 07
2FAE 3A 89 60
2FB1 32 89 63
2FB4 C3 7C 2F
                                                               ld
ld
ld
                                                                              c, #7
a, (bg_music)
(unk_0_6389), a
loc_0_2F7C
                                                               jр
2FB7
2FB7
2FB7
                                loc_0_2FB7:
                                                                                                                                                          ; CODE XREF: sub_0_2ED4+79 j
2FB7 3A 95 63
2FBA A7
2FBB CA 7C 2F
2FBE
                                                                              a. (unk 0 6395)
                                                               ld
                                                               and
jp
                                                                              z, loc_0_2F7C
                                                                                                                                                          ; CODE XREF: sub 0 2ED4+831i
2FBE 3A 1A 60
2FBE 3A 7C 2F
2FC3 CA 7C 2F
2FC6 0E 01
2FC8 2FC8
2FC8
2FCB
2FCB
2FCB
2FBE
                                loc_0_2FBE:
                                                               ld
bit
                                                                              a, (gen_purpose_timer)
3, a
Z, loc_0_2F7C
                                                               jp
ld
                                                                               loc_0_2F7C
                                                               jp
                                 ; End of function sub_0_2ED4
                                                             SUBROUTINE ...
2FCB 2FCB 3E 0E 2FCB 3E 0E 2FCB 2FCB 2FCB 2FD2 2FD2 2FD3 3E 0S 2FDB 3E 2FDB 11 01 05 2FDB 12 0FB 32 2FB 32 2FB 32 2FB 35 3E 2FE5 21 8F 62 2FE6 35 5
                                sub_0_2FCB:
                                                                                                                                                          ; CODE XREF: 0000:19BF1p
                                                                              a, #0xE
0x30
                                                               ld
                                                                                                                                                          ; return if level bit not set
                                                               rst
                                                                              0x30
h1, #unk_0_62B4
(h1)
NZ
a, #3
(unk_0_62B9), a
(unk_0_6396), a
de, #0x501
                                                               ld
dec
ret
                                                               ld
                                                               ld
                                                               ld
ld
                                                                                                                                                          ; update_bonus_timer
                                                                             queue_fg_vector_fn
a, (unk_0_62B3)
(h1), a
h1, #unk_0_62B1
(h1)
                                                               call
ld
ld
ld
2FE8 35
                                                               dec
                                                                              NZ #1
2FE9 C0
2FEA 3E 01
2FEC 32 86 63
2FEF C9
                                                               ret
ld
ld
                                                                              a, #1
(unk_0_6386), a
                                ret; End of function sub_0_2FCB
2FF0
2FF0 2FF0 2FF0 2FF0 7D 2FF0 7D 2FF1 0F 2FF2 0F 2FF3 0F 2FF6 6F 2FF7 7C 2FF6 6F 2FF7 7C 2FF8 2F 2FF9 E6 F8 2FF0 6F 2FF7 6F 2FF7 6F 2FFC 6F 2FF7 6F 2FFC 6F 3000 17
                                                    SUBROUTINE
                                                                                                                                                           ; CODE XREF: 0000:0DB71p
                                get_tilemap_addr_from_coords:
                                                                                                                                                           ; 0000:0DE41p ...
; Y pos in bits [7:3]
                                                               rrca
                                                               rrca
                                                                                                                                                           ; shift to [4:0]
                                                                              #0x1F
                                                                                                                                                           ; store as LSB of screen address
; X pos in bits [7:3]
                                                               ld
ld
                                                                              l, a
a, h
                                                               cpl
and
ld
                                                                                         ; (0)
                                                                              #0xF8
                                                                              e, a
                                                               xor
ld
rl
                                                                              h, a
                                                               rla
3001 CB 13
3003 17
3004 C6 74
                                                               r1
                                                               rla
add
                                                                                                                                                           ; A=Xpos bits [7:6], E=[5:3]
; add start of VRAM
                                                                              a, #0x74 ; 't'
d, a
hl, de
3006 57
3007 19
3008 C9
3008
                                                               ld
                                                                                                                                                           ; store
                                                               add
ret
                                                                                                                                                           ; HL = screen address
                                ; End of function get_tilemap_addr_from_coords
 3008
3009
3009
3009
                                                            SUBROUTINE
3009
 3009
3009 57
                                sub_0_3009:
                                                                                                                                                          ; CODE XREF: 0000:18DF<sup>†</sup>p; sub_0_1AC3+1DB<sup>†</sup>p ...
 3009
                                                               ld
                                                                              d, a
300A OF
300B DA 22 30
300E OE 93
3010 OF
                                                               rrca
jp
ld
                                                                              C, loc_0_3022
                                                                              c, #0x93;
                                                               rrca
3011 OF
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
 3012 D2 17 30
3015 0E 6C
3017
3017 07
                                                                        NC, loc_0_3017
c, #0x6C; '1'
                                                          jp
ld
                              loc_0_3017:
                                                                                                                                            ; CODE XREF: sub_0_3009+91j
                                                          rlca
 3018 DA 31 30
3018 79
301C E6 F0
301E 4F
                                                          jp
ld
and
ld
                                                                        C, loc_0_3031
E6 F0
301E 4F
301F C3 31 30
3022
3022
3022
3022
                                                                        #0xF0 ; '-'
                                                                        loc_0_3031
                                                          jр
                              loc_0_3022:
                                                                                                                                            ; CODE XREF: sub_0_3009+21j
  3022 0E B4
3024 0F
3025 0F
3026 D2 2B 30
                                                          1d
                                                                        c, #0xB4 ; '-
                                                          rrca
                                                          rrca
 3026 D2 2B 30
3029 0E 1E
302B CB 50
302D CA 31 30
3030 05
3031 3031
3031 79
3033 0F
3033 0F
3033 0F
3034 4F
3035 E6 03
3037 B8
3038 C2 31 30
                                                                        NC. loc 0 302B
                                                          jp
ld
                                                                        c, #0x1E
                               loc_0_302B:
                                                                                                                                             ; CODE XREF: sub_0_3009+1D<sup>†</sup> j
                                                          bit
                                                                        2, b
Z, loc_0_3031
b
                                                                                                                                            ; CODE XREF: sub_0_3009+F<sup>†</sup>j; sub_0_3009+16<sup>†</sup>j ...
                              loc_0_3031:
                                                          ld
                                                          rrca
rrca
                                                          ld
and
                                                          ср
 jp
ld
                                                                        NZ, loc_0_3031
                                                          rrca
                                                          rrca
                                                          and
cp
ret
                                                                        #3
#3
NZ
                                                                        2,
d
NZ
                                                                            d
                                                          res
                                                          dec
                                                                        a, #4
                                                          ld
                                                          ret
                               ; End of function sub_0_3009
                                     SUBROUTINE
                                                                                                                                            ; CODE XREF: 0000:0AF0<sup>†</sup>p
; 0000:0B38<sup>†</sup>p
                               sub_0_304A:
                                                          ld
ld
                                                                       a, (unk_0_638E)
c, a
                                                          ld
ld
ld
                                                                        c, a
b, #0
hl, #VRAM_start+0x200
sub_0_3064
                                                          call
                                                          ld
call
ld
                                                                        hl, #VRAM_start+0x1C0
                                                                        sub_0_3064
hl, #unk_0_638E
(hl)
                                                          dec
                                                          ret
                               ; End of function sub_0_304A
                                                       SUBROUTINE
                                                                                                                                             ; CODE XREF: sub_0_304A+C^p; sub_0_304A+12^p
                              sub_0_3064:
                                                                        hl, bc
a, (hl)
hl, de
         7E
19
77
                                                          ld
  3066 19
3067 77
3068 C9
                                                          add
                                                          ld
ret
                               ; End of function sub 0 3064
  3068
 3068
3068
3069
3069
3069 DF
3069 DF
306A 2A CO 63
                                                                                                                                             ; DATA XREF: 0000:0A8010
                               loc 0 3069:
                                                                                                                                             ; 0000:0A84\u00e10 ...
; wait for 8-bit countdown
                                                          rst
ld
inc
                                                                        0x18
hl, (unk_0_63C0)
(hl)
  306A 2A
306D 34
306E C9
306F
306F
306F
                                                          SUBROUTINE
  306F
306F
306F 21 AF 62
                                                                                                                                             ; CODE XREF: 0000:0AE8†p; 0000:1732†p ...
                              sub_0_306F:
 306F 21 AF 62
306F 34
3073 7E
3074 E6 07
3077 21 0B 69
307A 0E FC
307D 0E 81
307E 21 09 69
3082 CD 96 30
3085 21 1D 69
3088 CD 96 30
3088 CD 96 30
3088 CD 57 00
3088 E6 80
3090 21 2D 69
3093 AE
3094 77
3095 C9
3095
3096
                                                          1d
                                                                       hl, #unk_0_62AF (hl)
                                                          inc
                                                                       a, (hl)
#7
                                                          and
                                                          ret
ld
ld
                                                                        hl, #soft_sprite_ram+0xB
c, #0xFC; '3'
                                                                                                                                            ; sprite #2, x coord
                                                                        c, #0
0x38
                                                                       c, #0x81; 'ü'
hl, #soff
                                                          rst
                                                          ld
ld
                                                                        hl, #soft_sprite_ram+9
sub_0_3096
hl, #soft_sprite_ram+0x1D
                                                                                                                                            ; sprite #2, flipy & code
                                                          call
ld
                                                          call
                                                                        sub_0_3096
rand
#0x80 ; 'Ç'
                                                          and
ld
                                                                        h1, #soft_sprite_ram+0x2D (h1) (h1), a
```

xor ld ret ; End of function sub_0_306F

3096 3096 ; SUBROUTINE

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
                                                                                                                                                                                                                                             ; CODE XREF: sub_0_306F+13\uparrow p; sub_0_306F+19\uparrow p
            3096
                                                          sub 0 3096:
           3096
3096 06 02
3096
3098
3098
3098 79
3099 AE
309A 77
                                                                                                       ld
                                                                                                                             b, #2
                                                                                                                                                                                                                                             ; CODE XREF: sub 0 3096+6-1
                                                          loc_0_3098:
                                                                                                                            a, C
(h1)
(h1), a
h1, de
loc_0_3098
                                                                                                        14
                                                                                                       xor
ld
           309A 77
309B 19
309C 10
309E C9
309E
                                                                                                        add
                         10 FA
                                                                                                       djnz
ret
           309E C9
309E 309F 309F 309F 309F 309F 509F E5 309F E5 30AD 2A BB 30 60 60 30A6 6F 20A7 CB 7E 30AD 2C 30AE 73 30AF 3C 30AE 75 3
                                                           ; End of function sub_0_3096
                                                                     SUBROUTINE
                                                                                                                                                                                                                                             ; CODE XREF: check_coin_inserted+3B\uparrowp ; 0000:01F7\uparrowp ...
                                                           queue_fg_vector_fn:
                                                                                                       push
ld
ld
ld
                                                                                                                                      , #fg_vector_fn_params
(fg_fn_queue_tail)
                                                                                                                              hl,
                                                                                                                             a, (fg_:
l, a
7, (hl)
                                                                                                                                                                                                                                             ; point to end of queue
; empty entry?
; no, exit
; vector number
                                                                                                        bit
                                                                                                        jp
ld
                                                                                                                              Z, loc_0_30BB (hl), d
                                                                                                        inc
                                                                                                        ld
inc
ld
                                                                                                                              (hl), e
                                                                                                                                                                                                                                              ; msg number
                                                                                                                                                                                                                                             ; new tail
; wrap?
                                                                                                                              a, 1
#0xC0 ; 'L'
                                                                                                        ср
                                                                                                                             NC, loc_0_30B8
a, #0xC0; L
                                                                                                                                                                                                                                              ; no, skip
                                                           loc 0 30B8:
                                                                                                                                                                                                                                              ; CODE XREF: queue_fg_vector_fn+14^j
            30B8 32 B0 60
30BB
30BB
                                                                                                       ld
                                                                                                                              (fg_fn_queue_tail), a
                                                                                                                                                                                                                                              ; store tail
                                                          loc_0_30BB:
                                                                                                                                                                                                                                              ; CODE XREF: queue_fg_vector_fn+A^jj
            30BB E1
30BC C9
30BC
30BC
                                                                                                       pop
                                                                                                                             hl
                                                           ret
; End of function queue_fg_vector_fn
            30BD
30BD
30BD
                                                                              SUBROUTINE
            30BD
           30BD
30BD 21 50 69
30BD 30C0 06 02
30C2 CD E4 30
30C5 2E 80
30C7 06 0A
                                                           sub 0 30BD:
                                                                                                                                                                                                                                                  CODE XREF: 0000:12A31p
                                                                                                        ld
                                                                                                                              hl, #soft_sprite_ram+0x50
                                                                                                        ld
                                                                                                                              b, #2
                                                                                                       call
ld
ld
                                                                                                                             sub_0_30E4
1, #0x80;
b, #0xA
            30C9 CD E4 30
30CC 2E B8
30CE 06 0B
30D0 CD E4 30
                                                                                                       call
ld
ld
                                                                                                                              sub_0_30E4
1, #0xB8;
b, #0xB
                                                                                                                              sub_0_30E4
                                                                                                        call
            30D3 21 0C 6A
30D6 06 05
30D8 C3 E4 30
                                                                                                       ld
ld
jp
                                                                                                                              hl, #soft_sprite_ram+0x10C
b, #5
                                                                                                                              b, #5
sub_0_30E4
; End of function sub_0_30BD
                                                                                                     SUBROUTINE
                                                           sub_0_30DB:
                                                                                                                                                                                                                                             ; CODE XREF: 0000:12DF\p
                                                                                                                              hl, #soft_sprite_ram+0x4C
                                                                                                        ld
                                                                                                                            (h1), #0
1, #0x58; 'X'
b, #6
                                                                                                        ld
                                                                                                       ld
ld
                                                           ; End of function sub_0_30DB
            30E2
30E4
30E4
30E4
                                                                                                   SUBROUTINE
           30E4
30E4
30E4
30E4
30E5
30E5
30E5
30E5
30E7
30E7
30EA
30EA
30EA
30EA
30EA
30EC
30EC
30EC
30EC
30ED
30ED
                                                           sub_0_30E4:
                                                                                                                                                                                                                                             ; CODE XREF: sub_0_30BD+5\p ; sub_0_30BD+C\p ...
                                                                                                                              a. 1
                                                                                                       ld
                                                           loc_0_30E5:
                                                                                                                                                                                                                                              ; CODE XREF: sub_0_30E4+6|j
                                                                                                                              (hl), #0
a, #4
l, a
                                                                                                        ld
                                                                                                        add
                                                                                                       ld
djnz
                                                           ret; End of function sub_0_30E4
                                                                                                   SUBROUTINE
           ; CODE XREF: 0000:198C\p
                                                           sub_0_30ED:
                                                                                                        call
                                                                                                                              sub_0_30FA
                                                                                                       call
call
                                                                                                                             sub_0_313C
sub_0_31B1
sub_0_34F3
                                                                                                                                                                                                                                             ; spawn fireballs?
; process fireball AI?
; add fireballs to sprite display
                                                                                                       ret
                                                           ; End of function sub_0_30ED
                                                                                                       SUBROUTINE
```

sub 0 30FA:

loc_0_3103:

ld

ср ld

rst

(unk_0_6380) #6 C, loc_0_3103

a, #5

0x28

.dw loc_0_3110

30FA 3A 80 63 30FD FE 06 30FF 38 02 3101 3E 05 3103 3103 EF 3103

3104 10 31

; CODE XREF: sub 0 30ED p

CODE XREF: sub_0_30FA+5 j

; CODE

; Jump table

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
 3106 10 31
                                                                                                        .dw loc_0_3110
 3108 1B 31
310A 26 31
310C 26 31
310E 31 31
                                                                                                       .dw loc_0_311B
.dw loc_0_3126
.dw loc_0_3126
.dw loc_0_3131
; DATA XREF: sub_0_30FA+A\uparrow o; sub_0_30FA+C\uparrow o
                                                     loc_0_3110:
                                                                                                                               a, (gen_purpose_timer)
#1
                                                                                                       ld
                                                                                                       and
                                                                                                                               #1
Z
                                                                                                       cp
ret
                                                                                                       inc
                                                                                                                                sp
sp
                                                                                                       ret
                                                      loc_0_311B:
                                                                                                                                                                                                                                                            ; DATA XREF: sub_0_30FA+E10
                                                                                                       ld
                                                                                                                                         (gen_purpose_timer)
                                                                                                       and
                                                                                                       cp
ret
                                                                                                                                 #5
                                                                                                       inc
                                                                                                                                sp
                                                                                                                                                                                                                                                             ; DATA XREF: sub_0_30FA+10 o
                                                     loc_0_3126:
                                                                                                                               a, (gen_purpose_timer)
#3
                                                                                                       ld
and
cp
ret
                                                                                                                               #3
M
                                                                                                       inc
                                                                                                                                sp
                                                                                                                                sp
                                                                                                                                                                                                                                                            ; DATA XREF: sub 0 30FA+141o
                                                     loc_0_3131:
                                                                                                       ld
and
                                                                                                                               a,
#7
#7
M
                                                                                                                                          (gen_purpose_timer)
                                                                                                       ср
                                                                                                       ret
                                                                                                                               sp
sp
                                                                                                       ret
                                                     ; End of function sub_0_30FA
                                                                                                    SUBROUTINE
                                                                                                                                                                                                                                                            ; CODE XREF: sub_0_30ED+3<sup>p</sup>; fireball character data
                                                     sub_0_313C:
 313C DD 21 00 64
3140 AF
3141 32 A1 63
3144 06 05
                                                                                                       1d
                                                                                                                                ix, #unk_0_6400
                                                                                                       xor
ld
                                                                                                                                 (unk_0_63A1), a
3144 06 05
3146 11 20 00
3149
3149 DD 7E 00
314C FE 00
314E CA 7C 31
3151 3A AC 31
3154 3C 3155 32 AI 63
3158 3E 0D 77 08
315D 3A 17 62
3160 FE 01
3162 C2 6A 31
3163 5E 00
3167 DD 77 08
316A
316A
316A
316A
316A
316A
316A
                                                                                                       ld
                                                                                                                               de, #0x20 ; ' '
                                                                                                       ld
                                                     loc_0_3149:
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_313C+30|j
                                                                                                                               a, 0(ix)
#0
                                                                                                       ld
                                                                                                       cp
jp
ld
                                                                                                                                Z, loc_0_317C
a, (unk_0_63A1)
                                                                                                       inc
                                                                                                       ld
                                                                                                                                 (unk_0_63A1), a
                                                                                                       ld
ld
ld
                                                                                                                                a, #1
8(ix),
                                                                                                                               a, (unk_0_6217)
#1
                                                                                                       cp
jp
ld
                                                                                                                                NZ, loc_0_316A
                                                                                                                               a, #0
8(ix), a
                                                                                                       ld
                                                     loc_0_316A:
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_313C+26<sup>†</sup>j; sub_0_313C+45<sup>†</sup>j ...
                                                                                                       add
djnz
ld
ld
                                                                                                                                ix, de
loc_0_3149
hl, #unk_0_63A0
(hl), #0
316A D DB 316E 21 A0 63 3171 36 00 3178 C0 3176 FE 05 3177 FE 05 3181 CA 6A 31 3184 CA 6A 31 3184 CA 6A 31 3187 FE 05 3187 FE 02 3189 C2 95 31 318C 3A A1 63 3187 FE 05 3198 FE 01 3187 FE 02 3189 FE 01 3187 FE 02 3189 FE 01 3187 FE 02 3187 FE 01 3188 A2 A1 63 3188 
                                                                                                       ld
cp
ret
                                                                                                                                          (unk_0_63A1)
                                                                                                                                NZ
                                                                                                                                sp
sp
                                                                                                       inc
                                                                                                       inc
                                                                                                                               a, (unk_0_63A1)
#5
                                                     loc_0_317C:
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_313C+12 j
                                                                                                       ld
                                                                                                       ср
                                                                                                                               Z, loc_0_316A
a, (level_type)
#2
                                                                                                       jp
ld
                                                                                                                                                                                                                                                             ; cement level?
                                                                                                       ср
                                                                                                                                NZ, loc_0_3195
                                                                                                       jp
ld
ld
ld
                                                                                                                                                                                                                                                             ; no, continue
                                                                                                                                          (unk_0_63A1)
                                                                                                                                                                                                                                                             ; cement level timers
                                                                                                                               a, (unk_0_6380)
                                                                                                       cp
ret
                                                                                                                                c
Z
                                                     loc_0_3195:
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_313C+4Dfj
                                                                                                       ld
                                                                                                                                a, (unk_0_63A0)
                                                                                                                                                                                                                                                             ; spawn a fireball
                                                                                                       cp
jp
ld
ld
                                                                                                                                NZ, loc_0_316A
                                                                                                                                0(ix), a
0x18(ix), a
                                                                                                       xor
ld
                                                                                                                                 a
(unk_0_63A0)
                                                                                                                                 a, (unk_0_63A1)
                                                                                                       ld
inc
                                                                                                       ld
                                                                                                                                  (unk_0_63A1), a
                                                                                                                                loc_0_316A
                                                                                                       jр
```

; End of function sub_0_313C

31AE

```
31B1
                                                          SUBROUTINE 
31B1
31B1
31B1
31B1
                                sub_0_31B1:
                                                                                                                                                         ; CODE XREF: sub_0_30ED+61p
                                                              call
31B1 CD DD 31
                                                                             sub_0_31DD
31B4 AF
31B5 32 A2 63
31B8 21 E0 63
                                                              xor
ld
                                                                             (unk_0_63A2), a
hl, #unk_0_63E0
(unk_0_63C8), hl
                                                              ld
31BB 22 C8 63
                                                              ld
31BB 22 C8 63
31BE
31BE 2A C8 63
31C1 01 20 00
31C5 22 C8 63
31C8 7E
31C9 A7
31CA CA D0 31
31CD CD 02 32
31D0
                                                                                                                                                         ; CODE XREF: sub_0_31B1+28|j
                                loc_0_31BE:
                                                                             hl, (unk_0_63C8)
                                                              ld
                                                                            bc, #0x20; 'hl, bc (unk_0_63C8), hl a, (hl)
                                                              ld
                                                              add
ld
                                                              ld
                                                              and
                                                              jp
call
                                                                             Z, loc_0_31D0
sub_0_3202
31CD CD 02 32
31D0
31D0
31D0 3A A2 63
31D3 3C
31D4 32 A2 63
31D7 FE 05
31D9 C2 BE 31
31DC C9
31DC
31DC
31DD
31DD
31DD
31DD
                                loc_0_31D0:
                                                                                                                                                        ; CODE XREF: sub_0_31B1+19<sup>†</sup>j
                                                              ld
                                                                             a, (unk_0_63A2)
                                                              inc
ld
                                                                              (unk_0_63A2), a
                                                              ср
                                                                             NZ, loc_0_31BE
                                                              jр
                                                              ret
                                ; End of function sub_0_31B1
31DD 31DD 31DD 31DD 31DD 31DD 31DD 31ED F6 03 31EC F8 31E3 CD F6 31 31E6 FE 01 31E8 CO 31E9 21 39 64 31EC 3E 02 31EE 77 31EF 21 79 64 31F2 3E 02 31F4 77 31F5 C9 31F5 31F5 31F5 31F6 31F6 31F6
                                                           SUBROUTINE
                                sub_0_31DD:
                                                                                                                                                         ; CODE XREF: sub_0_31B1\daggerp
                                                                             a, (unk_0_6380)
#3
                                                              ld
                                                              cp
ret
call
                                                                             sub_0_31F6
                                                              cp
ret
ld
ld
ld
                                                                            NZ
hl, #unk_0_6439
a, #2
                                                                            n1, #unn___

a, #2

(h1), a

h1, #unk_0_6479

a, #2

(h1), a
                                                              ld
ld
                                                              ld
                                ret; End of function sub_0_31DD
31F6
31F6
31F6
                                               SUBROUTINE
31F6
31F6 3A 18 60
31F9 E6 03
31FB FE 01
                                sub 0 31F6:
                                                                                                                                                        ; CODE XREF: sub 0 31DD+6 p
                                                              ld
                                                                             a,
#3
#1
                                                                                   (random_no)
                                                              and
                                                              ср
31FD C0
31FE 3A
3201 C9
                                                              ret
ld
ret
                                                                             NZ
a, (gen_purpose_timer)
               1A 60
3201
3201
3202
3202
                                ; End of function sub_0_31F6
                                                            SUBROUTINE
3202

3202

3202

3202

3202 D 2A C8 63

3206 DD 7E 18

3209 FE 01

320B CA 7A 32

320E DD 7E 0D

3211 FE 04

3213 F2 30 32

3216 DD 7E 19

3219 FE 02

3218 CA 7E 32
                                sub_0_3202:
                                                                                                                                                         ; CODE XREF: sub_0_31B1+1C\p
                                                                                     (unk_0_63C8)
                                                                             ix,
                                                              ld
                                                              ld
                                                                                  0x18(ix)
                                                              cp
jp
ld
                                                                             Z, loc_0_327A
a, 0xD(ix)
                                                              cp
jp
ld
                                                                             P, loc_0_3230
a, 0x19(ix)
#2
                                                              cp
jp
call
3219 FE 02
321B CA 7E 32
321E CD 0F 33
3221 3A 18 60
3224 E6 03
                                                                                  loc 0 327E
                                                                             4, 10C_U_327E
sub_0_330F
a, (random_no)
#3
                                                              and
 3226 C2 33 32
                                                              jр
                                                                             NZ, loc_0_3233
                                loc_0_3229:
                                                                                                                                                        ; CODE XREF: sub_0_3202+7F|j
 3229 DD 7E 0D
                                                              ld
                                                                             a, 0xD(ix)
322C A7
322D CA 57 32
                                                              and
jp
                                                                             z, loc_0_3257
322D CA 57 32
3230
3230 CD 3D 33
3230 CD 3D 33
3233
3233
                                                                                                                                                        ; CODE XREF: sub 0 3202+111 j
                                loc 0 3230:
                                                              call
                                                                             sub_0_333D
3233 3233 D 7E 0D 3236 FE 04 3238 F2 91 32 3238 CD AD 33 323E CD 8C 29 3241 FE 01 3243 CA 97 32 3246 DD 2A C8 63 324D DF 10 324F DA 8C 32 3252 FE F0 3254 D2 84 32 3257 3257
                                loc_0_3233:
                                                                                                                                                        ; CODE XREF: sub_0_3202+24 j
                                                                             a, 0xD(ix) #4
                                                              1d
                                                              ср
                                                                             P, loc_0_3291
sub_0_33AD
                                                              jp
call
                                                              call
cp
jp
ld
ld
                                                                             sub_0_33AD
sub_0_298C
#1
Z, loc_0_3297
                                                                             ix, (unk_0_63C8)
a, 0xE(ix)
                                                                             a, 0xE(ix)
#0x10
C, loc_0_328C
#0xF0; '-'
                                                              qŗ
                                                              cp
jp
                                                                             NC, loc_0_3284
                                loc 0 3257:
                                                                                                                                                         ; CODE XREF: sub_0_3202+2B<sup>†</sup> j
; sub_0_3202+87<sup>†</sup> j ...
 3257
3257 DD 7E 13
                                                                             a, 0x13(ix)
#0
 3257
325A FE 00
                                                              ld
                                                              ср
                                                                             NZ, loc_0_32B9
         C2 B9 32
3E 11
3261
3261
                                                                                                                                                        ; CODE XREF: sub_0_3202+B8|j
                                loc_0_3261:
 3261 DD 77 13
                                                                             0x13(ix), a
d, #0
                                                              1d
3264 16 00
                                                              ld
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
3266 5F
3267 21 7A 3A
326A 19
326B 7E
                                                             e, a
hl, #fireball_bouncing_data
hl, de
a, (hl)
b, OxE(ix)
2//2/b
                                                  ld
                                                  ld
                                                  add
ld
ld
326A 19
326B 7E
326C DD 46 0E
326F DD 70 03
3272 DD 4E 0F
3275 81
3276 DD 77 05
                                                              3(ix), b
c, 0xF(ix)
                                                  ld
                                                  ld
                                                  add
ld
                                                              a, c
5(ix), a
3279 C9
                                                  ret
327A
327A
327A
                          loc_0_327A:
                                                                                                                           ; CODE XREF: sub_0_3202+9<sup>†</sup>j
327A CD BD 32
327D C9
327E
327E
                                                  call
                                                              sub_0_32BD
                         loc_0_327E:
                                                                                                                           ; CODE XREF: sub_0_3202+19 j
327E CD D6 32
3281 C3 29 32
                                                              sub_0_32D6
loc_0_3229
                                                  call
                                                  jр
3284
3284
3284
3284
3284 3E 02
3286
                         loc_0_3284:
                                                                                                                           ; CODE XREF: sub_0_3202+52<sup>†</sup> j
                                                  1d
                                                              a, #2
3286
3286 DD 77 0D
3289 C3 57 32
328C
                         loc_0_3286:
                                                                                                                           ; CODE XREF: sub_0_3202+8C|j
                                                               0xD(ix)
                                                              loc_0_3257
                                                  jр
                          loc_0_328C:
                                                                                                                           ; CODE XREF: sub_0_3202+4D<sup>†</sup> j
       3E 01
                                                  ld
328E C3 86 32
                                                              loc_0_3286
                                                  jp
3291
3291
3291
                                                                                                                           ; CODE XREF: sub_0_3202+36 j
                          loc 0 3291:
3291 CD E7 33
3294 C3 57 32
3297
                                                              sub_0_33E7
loc_0_3257
                                                  call
                                                  jp
3297
3297
3297 DD 2A C8 63
329B DD 7E 0D
329E FE 01
32AO C2 B1 32
32A3 3E 02
32A5 DD 35 0E
                         loc_0_3297:
                                                                                                                           ; CODE XREF: sub_0_3202+41 j
                                                              ix, (unk_0_63C8)
a, 0xD(ix)
#1
                                                  ld
                                                  cp
jp
ld
                                                              NZ, loc_0_32B1
a, #2
0xE(ix)
                                                  dec
32A8
32A8
32A8 DD 77 OD
32AB DD C3 33
32AE C3 57 32
32B1
32B1
                         loc_0_32A8:
                                                                                                                           ; CODE XREF: sub_0_3202+B4|j
                                                              0xD(ix), a
sub_0_33C3
                                                  ld
                                                  call
                                                  jр
                                                              loc_0_3257
32B1
32B1 3E 01
32B3 DD 34 0E
32B6 C3 A8 32
                                                                                                                           ; CODE XREF: sub 0 3202+9E↑ j
                          loc 0 32B1:
                                                              a, #1
0xE(ix)
loc_0_32A8
                                                  1d
                                                  inc
                                                  jр
32B9
32B9
32B9
                                                                                                                           ; CODE XREF: sub_0_3202+5Afj
                          loc_0_32B9:
                                                  dec
                                                              a
loc_0_3261
32BA C3 61 32
                         jp loc_
; End of function sub_0_3202
32BA
32BA
32BD
32BD
32BD
32BD
                                                 SUBROUTINE
32BD 32BD 32 27 62 32C0 FE 01 32C2 CA CE 32 32C7 CA D2 32 32CA CD B9 34 32CD C9
                         sub_0_32BD:
                                                                                                                           ; CODE XREF: sub 0 3202+78 p
                                                              a, (level_type)
                                                  ld
                                                  ср
                                                              Z, loc_0_32CE
                                                  jp
cp
jp
call
                                                              #2
Z, loc_0_32D2
                                                              sub_0_34B9
                                                  ret
32CD C9
32CE
32CE
32CE
32CE
32CE CD 2C 34
32D1 C9
32D2
32D2
32D2
                          loc_0_32CE:
                                                                                                                           ; CODE XREF: sub_0_32BD+5<sup>†</sup>j
                                                  call
                                                              sub 0 342C
                                                                                                                           ; CODE XREF: sub 0 32BD+A1i
32D2
                         loc_0_32D2:
32D2 CD 78 34
32D5 C9
                                                  call
ret
                                                              sub_0_3478
                          ; End of function sub_0_32BD
32D5
32D5
32D6
32D6
32D6
32D6
                                  SUBROUTINE ...
sub_0_32D6:
                                                              a, 0x1C(ix)
                                                                                                                           ; CODE XREF: sub_0_3202+7C\p
                                                  ld
                                                  cp
jp
ld
cp
jp
ld
ld
                                                              NZ, loc_0_32FD
a, 0x1D(ix)
#1
                                                              NZ, loc 0 330B
                                                              0x1D(ix), #0
a, (mario_x_coord)
b, 0xF(ix)
                                                  sub
                                                              C, loc_0_3303
0x1C(ix), #0xFF
32F8
                         loc_0_32F8:
                                                                                                                          ; CODE XREF: sub 0 32D6+2A-i
```

32F8 DD 36 0D 00 32FC C9

32FD DD 35 1C

3300 C2 F8 32 3303

32FD

ld ret

dec

jр

loc_0_32FD:

0xD(ix), #0

0x1C(ix)

NZ, loc_0_32F8

; CODE XREF: sub_0_32D6+5[†]j

sp

ret ; End of function sub_0_33A1

; SUBROUTINE

33AC 33AC 33AC 33AD C9

33AD 33AD

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
 33AD
33AD
33AD 7E 0D
33BD FE 01
33B2 CA D9 33
3B5 DD 7E 07
33B8 E6 7F
33BA DD 77 07
33BD DD 35 0E
                                                                                                                                                            ; CODE XREF: sub 0 3202+391p
                                 sub 0 33AD:
                                                                               a, 0xD(ix)
#1
Z, loc_0_33D9
                                                                1d
                                                                ср
                                                                jp
ld
                                                                               a, 7(ix)
#0x7F; ''
7(ix), a
                                                                 and
                                                                                                                                                            ; reset hflip
; sprite tile #
                                                                ld
                                                                               0xE(ix)
 33C0
33C0
33C0 CD 09 34
33C0
                                 loc_0_33C0:
                                                                                                                                                            ; CODE XREF: 0000:33E4-j
                                                                call
                                                                               sub_0_3409
                                 ; End of function sub_0_33AD
 33C0
33C3
33C3
33C3
                                                    SUBROUTINE
33C3
33C3
33C3
33C3
33C3
33C8 FE 01
33C8 C0
33C9 DD 66 0E
33CC DD 66 0F
33CP DD 46 0D
33D2 CD 33 23
33D5 DD 75 0F
33D8 C9
33D8 C9
33D8 C9
33D8 C9
33D8 C9
33D8 C9
                                                                                                                                                            ; CODE XREF: sub_0_3202+A91p
                                  sub_0_33C3:
                                                                ld
                                                                               a, (level_type)
                                                                cp
ret
ld
ld
ld
                                                                               NZ
h, 0xE(ix)
l, 0xF(ix)
b, 0xD(ix)
                                                                call
ld
                                                                               sub_0_2333
0xF(ix), 1
                                                                ret
                                  ; End of function sub_0_33C3
33D9
33D9
33D9
33D9
33D9
33D0 TE 07
33DC F6 80
33DE DD 77 07
33E1 DD 34 0E
33E4 C3 C0 33
33E7
33E7
33E7
33E7
33E7
33E7
33E7 CD 09 34
33ED FE 08
33ED FE 08
33ED FE 08
33EF C2 05 34
33F2 DD 7E 14
33F5 A7
33F6 C2 01 34
33F9 DD 36 14 02
33FD DD 35 0F
3401
3401
3401
3401
3401
3401
3405
3405
                                                                                                                                                            ; CODE XREF: sub_0_33AD+5<sup>†</sup>j
; sprite tile #
; set hflip
                                 loc_0_33D9:
                                                                               a, 7(ix)
#0x80 ; 'Ç'
7(ix), a
                                                                1d
                                                                or
ld
                                                                                loc_0_33C0
                                                                jр
                                                                SUBROUTINE
                                 sub 0 33E7:
                                                                                                                                                            ; CODE XREF: sub_0_3202+8F1p
                                                                call
                                                                               sub 0 3409
                                                                ld
cp
                                                                               NZ, loc_0_3405
a, 0x14(ix)
                                                                jp
ld
and
                                                                               NZ, loc_0_3401
                                                                jp
ld
                                                                               0x14(ix), #2
                                                                               0xF(ix)
                                 loc_0_3401:
                                                                                                                                                            ; CODE XREF: sub_0_33E7+F<sup>†</sup> j
                                                                               0x14(ix)
                                                                ret
3405
3405
3405
3405
                                                                                                                                                            ; CODE XREF: sub_0_33E7+8 j
                                 loc_0_3405:
         DD 34 OF
                                                                               0xF(ix)
                                                                inc
3408 C9
                                                                ret
                                  ; End of function sub_0_33E7
                                                              SUBROUTINE 
                                                                                                                                                            ; CODE XREF: sub_0_33AD+13\uparrow p; sub_0_33E7\uparrow p
                                 sub_0_3409:
                                                                               a, 0x15(ix)
                                                                and
                                                                               a

NZ, loc_0_3428

0x15(ix), #2

7(ix)

a, 7(ix)

#0xF
                                                                jp
ld
                                                                                                                                                            ; inc fireball animation
                                                                inc
ld
341A E6 OF
341C FE OF
341C FE OF
341E CO
341F DD 7E O7
3422 EE O2
3428
3428 DD 77 O7
3428
3428 DD 35 15
3428 DD 35 15
3428 CD 36 ED AF
3420 DD 36 18
3420 DD 36 32
3430 DD 36 32
3430 DD 36 32
3430 DD 36 32
3430 DD 36 32
3445 DD 34 03
3445 3445
3445 3445
                                                                and
cp
ret
                                                                               #0xF
NZ
a, 7(ix)
#2
                                                                                                                                                             ; last animation frame?
                                                                                                                                                             ; no, return
                                                                1d
                                                                xor
                                                                                                                                                             ; reset animation frame
                                                                                7(ix), a
                                                                ld
                                                                ret
                                                                                                                                                            ; CODE XREF: sub_0_3409+4<sup>†</sup>j
                                 loc_0_3428:
                                                                               0x15(ix)
                                                                dec
                                                                ret
                                  ; End of function sub_0_3409
                                                             SUBROUTINE
                                                                                                                                                            ; CODE XREF: sub_0_32BD+11 p
                                 sub 0 342C:
                                                                ld
ld
                                                                               1, 0x1A(ix)
h, 0x1B(ix)
                                                                xor
                                                                               a
bc, #0
                                                                ld
                                                                adc
jp
ld
                                                                               NZ, loc_0_3442
hl, #fireball_bounce_data
                                                                ld
                                                                               3(ix), #0x26;
```

loc_0_3442:

loc_0_3445:

3446 FE AA 3448 CA 56 34 344B DD 77 05

344E 344F DD 75 1A 3(ix)

a, (hl) #0xAA; '¬

0x1A(ix), 1

Z, loc_0 5(ix), a loc_0_3456

inc

ld

cp jp ld

ld

; CODE XREF: sub_0_342C+C^j

; CODE XREF: sub_0_3478+2D|j
; sub_0_3478+3E|j

```
3452 DD 74 1B
                                                                        0x1B(ix), h
                                                          ld
 3455 C9
3456
3456
3456
                                                          ret
                              loc_0_3456:
                                                                                                                                              ; CODE XREF: sub_0_342C+1C j
3456 AF 3457 DD 77 13 3455 AD 77 18 3455 DD 77 0D 3460 DD 77 1C 3463 DD 76 05 3466 DD 77 0E 3466 DD 77 0F 346F DD 36 1A 00 3473 DD 36 1B 00 3477 C9
                                                          xor
                                                                        a

0x13(ix), a

0x18(ix), a

0xD(ix), a

0x1C(ix), a

a, 3(ix)

0xE(ix), a
                                                          ld
ld
ld
                                                          ld
ld
ld
ld
a, 5(ix)

0xF(ix), a

0x1A(ix), #0

0x1B(ix), #0
                                                          ld
ld
ld
                                                          ret
                              ; End of function sub\_0\_342C
                                                        SUBROUTINE
                              sub 0 3478:
                                                                                                                                              ; CODE XREF: sub 0 32BD+15 p
                                                          ld
                                                                        1. 0x1A(ix)
                                                          ld
xor
                                                                        h, 0x1B(ix)
                                                                        bc, #0
                                                          ld
add
                                                                        hl bc
                                                          jp
ld
ld
                                                                        NZ, loc_0_349A
hl, #cement_fi
                                                                        hl, #cement_fireball_data
a, (mario_y_coord)
7, a
                                                          bit
jp
ld
                                                                        7, a
Z, loc_0_34A8
0xD(ix), #1
3(ix), #0x7E; '~'
                                                          ld
 349A
349A
349A DD 7E OD
                                                                                                                                              ; CODE XREF: sub_0_3478+C^j; sub_0_3478+38|j
                              loc_0_349A:
349A 349A 349D FE 01 349F C2 B3 34 34A2 DD 34 03 34A5 C3 45 34
                                                                        a, 0xD(ix)
#1
                                                          ld
                                                          cp
jp
                                                                        NZ, loc_0_34B3
                                                           inc
                                                                        3(ix)
                                                                        loc 0 3445
                                                          jp
 34A8
                              loc 0 34A8:
                                                                                                                                              ; CODE XREF: sub 0 3478+17 j
 34A8 DD 36 0D 02
34AC DD 36 03 80
34B0 C3 9A 34
                                                                        0xD(ix), #2
3(ix), #0x80; 'C'
loc_0_349A
                                                          14
                                                          ld
                                                          jр
34B0 C3 9A 34
34B3
34B3
34B3 DD 35 03
34B6 C3 45 34
                                                                                                                                              ; CODE XREF: sub_0_3478+27<sup>†</sup> j
                               loc_0_34B3:
                                                          dec
                                                                        3(ix)
                              $\rm jp\ loc\_0\_3445 ; End of function sub\_0\_3478
 34B6
34B6
34B9
 34B9
34B9
34B9
34B9
                                                        SUBROUTINE
; CODE XREF: sub 0 32BD+D1p
                              sub 0 34B9:
                                                                        a, (level_type)
#3
Z
                                                          ld
                                                          cp
ret
                                                          ld
bit
                                                                        a,
7
                                                                            (mario_y_coord)
                                                          jp
ld
                                                                               loc_0_34ED
                                                                        hl, #rivet_fireball_data
                              loc_0_34CA:
                                                                                                                                              ; CODE XREF: sub_0_34B9+37 j
                                                          ld
                                                                            (random_no+1)
                                                                        a,
#6
                                                          and
                                                                       #6
c, a
hl, bc
a, (hl)
3(ix), a
0xE(ix), a
hl
                                                          ld
add
ld
34D3 7E
34D4 DD 77 03
34D7 DD 77 0E
34DA 23
34DB 7E
                                                          ld
ld
inc
                                                                        n:
a, (hl)
5(ix), a
0xF(ix), a
 34DB 7E
34DC DD 77 05
34DF DD 77 0F
34E2 AF
                                                          ld
                                                          ld
ld
34E2 AF
34E3 DD 77 OD
34E6 DD 77 18
34E9 DD 77 1C
34EC C9
34ED
                                                          xor
ld
                                                                        0xD(ix), a
                                                          ld
ld
                                                                        0x18(ix), a
0x1C(ix), a
                                                          ret
 34ED
34ED
34ED 21 D4 3A
                               loc_0_34ED:
                                                                                                                                              ; CODE XREF: sub_0_34B9+B<sup>†</sup> j
                                                                        hl, #rivet_fireball_start_points
                                                          ld
 34F0 C3 CA 34
34F0
34F0
34F3
                              jp loc_0_34CA
; End of function sub_0_34B9
 34F3
34F3
34F3
                                                        SUBROUTINE
 34F3
                              sub 0 34F3:
                                                                                                                                              ; CODE XREF: sub 0 30ED+91p
 34F3 21 00 64
34F6 11 D0 69
34F9 06 05
                                                                        h1, #unk_0_6400
de, #soft_sprite_ram+0xD0
b, #5
                                                                                                                                              ; fireball character data
; fireballs in sprite ram
; 5 fireballs (max)
                                                          1d
                                                          ld
 34FB
34FB
34FB
                              loc_0_34FB:
                                                                                                                                              ; CODE XREF: sub_0_34F3+28|j
34FB 34FB 7E 34FC A7 34FC CA 1E 35 3500 2C 3501 2C 3503 7E 3504 12 3505 3E 04 3507 85
                                                          ld
                                                                        a, (hl)
                                                          and
                                                                        a
Z, loc_0_351E
                                                          jp
inc
inc
                                                          inc
                                                                        1
                                                                       a, (hl)
(de), a
a, #4
a, l
l, a
                                                          ld
ld
ld
                                                                                                                                              ; fireball X coordinate
 3507 85
                                                          add
ld
 3508 6F
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
 3509 1C
                                                                                                                                                                                                  (h1)
 350A
                    7E
12
2C
1C
7E
12
2D
2D
                                                                                                                                                  ld
                                                                                                                                                                                                                                                                                                                                                                      ; fireball sprite tile #
                                                                                                                                                 ld
inc
inc
350B
350C
350D
                                                                                                                                                                                       (de), a
                                                                                                                                                                                                  (h1)
                                                                                                                                                                                                                                                                                                                                                                      ; fireball palette
350E
350F
3510
3511
3512
3513
3514
3515
                                                                                                                                                  ld
                                                                                                                                                 ld
dec
dec
                                                                                                                                                                                        (de), a
                     2D
1C
7E
12
                                                                                                                                                  dec
                                                                                                                                                  inc
                                                                                                                                                  ld
                                                                                                                                                                                     a, (hl)
(de), a
                                                                                                                                                                                                                                                                                                                                                                       ; fireball Y coord
                                                                                                                                                  ld
3516 13
3517
3517
3517 3E
                                                                                                                                                  inc
                                                                         loc_0_3517:
                                                                                                                                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_34F3+33|j
                                                                                                                                                                                    a, #0x1B
a, 1
1, a
                      3E 1B
                                                                                                                                                  ld
3517 3E 1B
3519 85
351A 6F
351B 10 DE
                                                                                                                                                  add
                                                                                                                                                 ld
djnz
                                                                                                                                                                                     loc_0_34FB
351B TO DE
351D C9
351E
351E
351E
351E 3E 05
                                                                                                                                                 ret
                                                                         loc 0 351E:
                                                                                                                                                                                                                                                                                                                                                                      ; CODE XREF: sub 0 34F3+A j
                                                                                                                                                  ld
                                                                                                                                                                                    a, #5
                                                                                                                                                                                   a, #5
a, 1
1, a
a, #4
a, e
e, a
loc_0_3517
                     85
6F
                                                                                                                                                 add
ld
3522 3E 04
3524 83
3525 5F
                                                                                                                                                  ld
                                                                                                                                                  add
 3525 5F
3526 C3 17 35
                                                                                                                                                  ld
                                                                                                                                                   qį
                                                                           ; End of function sub_0_34F3
 3526
3526
3526
3529 00 00 00
3529
                                                                          bonus_points_tbl:.db 0, 0, 0
                                                                                                                                                                                                                                                                                                                                                                               DATA XREF: add_bonus_and_update_high_score+9fo
3529 0 0 01 00 352F 00 01 00 352F 00 03 00 3535 00 05 00 3538 00 05 00 3538 00 07 00 3541 00 09 00 3544 00 00 00 3544 00 10 00 3544 00 10 00 3544 00 20 20 00 3540 00 20 3540 00 20 20 3540 00 20 20 3540 00 20 20 00
                                                                                                                                                                                                                                                                                                                                                                               0 pts
                                                                                                                                                                                                                                                                                                                                                                               100 pts
200 pts
300 pts
                                                                                                                                                                               1, 0
2, 0
3, 0
4, 0
5, 0
6, 0
7, 0
8, 0
9, 0
                                                                                                                                                  .db
                                                                                                                                                                   0,
                                                                                                                                                   .db
                                                                                                                                                                                                                                                                                                                                                                                 400 pts
                                                                                                                                                                                                                                                                                                                                                                               500 pts
600 pts
700 pts
                                                                                                                                                   .db
                                                                                                                                                    .db
                                                                                                                                                    .db
                                                                                                                                                                                                                                                                                                                                                                                 800 pts
                                                                                                                                                                                                                                                                                                                                                                               900 pts
0 pts
1000 pts
                                                                                                                                                    .db
                    00 00 00
00 10 00
00 20 00
00 30 00
00 40 00
00 50 00
00 60 00
00 70 00
00 80 00
                                                                                                                                                    .db
                                                                                                                                                                                                                                                                                                                                                                               2000 pts
3000 pts
4000 pts
  354D
                                                                                                                                                    db
                                                                                                                                                                               0x20
354D
3550
3553
3556
3559
355C
355F
                                                                                                                                                    .db
                                                                                                                                                                   0, 0x30,
0, 0x40,
                                                                                                                                                                  0, 0x40, 0
0, 0x50, 0
0, 0x60, 0
0, 0x70, 0
0, 0x80, 0
                                                                                                                                                    .db
                                                                                                                                                                                                                                                                                                                                                                                5000 pts
                                                                                                                                                    .db
                                                                                                                                                                                                                                                                                                                                                                                 6000 pts
                                                                                                                                                                                                                                                                                                                                                                                7000 pts
8000 pts
                                                                                                                                                    .db
3562 00 90 00
3565 94 77
3567 01 23 24 10+
3567 10 00 00 07+
                                                                                                                                                 .db 0, 0x90, 0 ; 9000 pt db VRAM_start+0x394 ; DATRA XI db 1, 0x23, 0x24, 0x10, 0x10, 0, 0, 7, 6, 5, 0, 0x10 .db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10 .db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10 .db 0x10, 0x10, 0x10, 0x10, 0x3F, 0, 0x50, 0x76, 0 .dw VRAM_start+0x2F4 .dw VRAM_start+0x396 .db 2, 0x1E, 0x14, 0x10, 0x10, 0, 0, 6, 1, 0, 0, 0x10 .db 0x10, 0x10 .db 0x10, 0
                                                                                                                                                     .db
                                                                                                                                                                                 0 \times 90
                                                                                                                                                                                                                                                                                                                                                                                 9000 pts
                                                                         high_score_tbl:
                                                                                                                                                                                                                                                                                                                                                                               DATA XREF: read_dips_and_high_score_tbl+53\u00f10
3567 10 00 00 07+
3567 06 05 00 10+
3585 F4 76
3587 96 77
3589 02 1E 14 10+
3589 10 00 00 06+
3589 01 00 00 10+
3587 F6 76
3589 98 77
3588 03 22 14 10+
358B 10 00 00 05+
35AB 09 05 00 10+
35AB 09 05 00 10+
35AB 98 77
                                                                                                                                                .dw VRAM_start+0x2F6
.dw VRAM_start+0x398
.db 3, 0x22, 0x14, 0x10, 0x10, 0, 0, 5, 9, 5, 0, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x3F, 0, 0x50, 0x59, 0
.dw VRAM_start+0x2F8
.dw VRAM_start+0x39A
.db 4, 0x24, 0x18, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x3F, 0, 0x50, 0x50, 0
.dw VRAM_start+0x2FA
.dw VRAM_start+0x39C
.db 5, 0x24, 0x18, 0x10, 0x10, 0, 4, 3, 0, 0, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x3F, 0, 0, 0x43, 0
.dw VRAM_start+0x2FC
.db 0x3B, 0x5C, 0x4B, 0x5C, 0x5B, 0x5C, 0x6B, 0x5C, 0x7B
35AB 03 22 14 10+
35AB 09 05 00 05+
35AB 09 05 00 10+
35C9 F8 76
35CB 9A 77
35CD 04 24 18 10+
35CD 10 00 00 05+
35CD 00 05 00 10+
35CB FA 76
35EB FA 76
35EF 05 24 18 10+
35EF 05 24 18 10+
35EF 05 24 18 10+

35EF 10 00 00 04+

35EF 03 00 00 10+

360D FC 76

360P 3B 5C 4B 5C+letter_coords:

360F 5B 5C 6B 5C+

360F 7B 5C 8B 5C+

360F 9B 5C AB 5C+

360F 9B 5C CB 5C+
                                                                                                                                                  .db 0x3B, 0x5C, 0x4B, 0x5C, 0x5B, 0x5C, 0x6B, 0x5C,
                                                                                                                                                                                                                                                                                                                                                                                        0x7B
                                                                                                                                                                                                                                                                                                                                 ; DATA XREF: sub_0_15FA+410
0x5C, 0xBB, 0x5C
0x5B, 0x6C, 0x6B
0x6C, 0xAB, 0x6C
                                                                                                                                                  .db 0x5C, 0x8B, 0x5C, 0x9B,
.db 0xCB, 0x5C, 0x3B, 0x6C,
.db 0x6C, 0x7B, 0x6C, 0x8B,
.db 0xBB, 0x6C, 0xCB, 0x6C,
.db 0x7C, 0x6B, 0x7C, 0x7B,
.db 0xAB, 0x7C, 0xBB, 0x7C,
                                                                                                                                                                                                                                                                           0x5C, 0xAB,
0x4B, 0x6C,
0x6C, 0x9B,
0x3B, 0x7C,
0x7C, 0x8B,
0xCB, 0x7C
360F BB 5C CB
360F 3B 6C 4B
360F 5B 6C 6B
360F 7B 6C 8B
364B 8B 36
364D 01 00
364F 98 36
3651 A5 36
                                               8B 6C+
                                                                                                                                                                                                                                                                                                                                                                      ; DATA XREF: print message Afo
                                                                          message table:
                                                                                                                                                    .dw aGAME OVER
                                                                                                                                                  .dw 1
.dw aPLAYER_I
.dw aPLAYER_II
3651 A5 36
3653 B2 36
3655 BF 36
3657 06 00
3659 CC 36
365B 08 00
365D E6 36
365F FD 36
                                                                                                                                                   .dw aHIGH_SCORE
.dw aCREDIT
.dw 6
                                                                                                                                                    .dw aHOW HIGH CAN YOU GET
                                                                                                                                                  .dw allow_iiight_CAN_100_GET
.dw 8
.dw aONLY_1_PLAYER_BUTTON
.dw a1_OR_2_PLAYERS
                   08 00

E6 36

FD 36

0B 00

15 37

1C 37

30 37

38 37

47 37

5D 37

8B 37
  3661
                                                                                                                                                   .dw 0xB
3663
3665
3667
3669
                                                                                                                                                  .dw aPUSH
.dw aNAME_REGISTRATION
.dw aNAME
.dw aDASHDASHDASH
                                                                                                                                                  .dw aA_B_C_D_E_F_G_H_I_J
.dw aK_L_M_N_O_P_Q_R_S_T
.dw aU_V_W_X_Y_Z_rub_end
.dw aREGI_TIME
  366F
3671
3673
3675
3677
                                                                                                                                                   .dw high_score_tbl_ram
.dw hs_tbl_2nd
```

.dw hs_tbl_3rd
.dw hs_tbl_4th
.dw hs_tbl_5th
.dw aRANK_SCORE_NAME

.dw aINSERT_COIN

.dw aYOUR NAME WAS REGISTERED

3677 44 61 3679 66 61 367B 88 61 367D 9E 37 367F B6 37

3681 D2 37

.db 0, 0x70, 8, 0x48 .db 0x6A, 0x14, 0xA,

38B0 6A 14 0A 48 ...db 0x6A, 0x14, 0xA, 0x48 38B4 FD FD FD FD+dk_intro_jump_up_data:.db 0xFD, 0x

.db 0xFE, 0xFE, 0xFE, 0xFE, 0xFF, 0xFF, 0xFF, 0xFF, 0

DATA XREF: 0000:0AA910

38A8 6B 31 08 41

3820 00

70 08 48

38B4 FD FD FD FE+ 38B4 FE FE FE FE+

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
 38B4 FE FF FF FF+ .db 0, 1, 1, 1, 0x7F

38CB FF FF FF FF+dk_intro_jump_across_data:.db 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0, 0xFF, 0, 0, 1, 0

38CB FF 00 FF 00+ ; DATA XREF: 0000:0BA610

38CB 00 01 00 01+ ; 0000:0BA610

38CB 01 01 01 01+ .db 1, 1, 1, 1, 1, 0x7F

38CB 01 01 01 01+ .db 1, 1, 1, 1, 1, 0x7F
                                        01 00 01+
01 01 01+ .db 1, 1, 1, 1, 1, 0x7F
7F F0 10+draw_data_bend_girders_2:.db 4, 0x7F, 0xF0, 0x10, 0xF0, 2, 0xDF, 0xF2, 0x70, 0xF8
; DATA XREF: 0000:0B91
  38DC F0 02 DF F2+
38DC 70 F8 02 6F+
38DC F8 10 F8 AA+
                                                                                                                                                                            ; DATA XI
db 2, 0x6F, 0xF8, 0x10, 0xF8, 0xAA, 4, 0xDF, 0xD0, 0x90,
db 0xD0, 2, 0xDF, 0xDC, 0x20, 0xD1, 0xAA, 0xFF, 0xFF
db 0xFF, 0xFF, 0xFF, 4, 0xDF, 0xA8, 0x20, 0xA8, 4, 0x5F
db 0xB0, 0x20, 0xB0, 2, 0xDF, 0xB0, 0x20, 0xBB, 0xAA
db 4, 0xDF, 0x88, 0x30, 0x88, 4, 0xDF, 0x90, 0xB0, 0x90
db 2, 0xDF, 0x9A, 0x20, 0x8F, 0xAA, 4, 0xBF, 0x68, 0x20,
db 0x68, 4, 0x3F, 0x70, 0x20, 0x70, 2, 0xDF, 0x6E, 0x20
db 0x68, 4, 0x3F, 0x70, 0x20, 0x70, 2, 0xDF, 0x6E, 0x20
db 0x79, 0xAA
   38DC
                           04 DF D0 90+
  38DC D0 02 DF DC+
38DC 20 D1 AA FF+
38DC FF FF FF FF+
 38DC 04
38DC A8
                          04 DF A8 20+ .db 0x68, 4, 0x3F, 0x70, 0x20, 0x70, 2, 0xFF, 0x6E, (A8 04 5F B0+ .db 0x79, 0xAA .d
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; DATA XREF: 0000:0B4810
    3932 00
                                                                                                                                                                                                                                                                                                                                                                                                                                               ; DATA XREF: 0000:1671†o
  3932 2B AC 08 4C+
  3932 3B AE 08 4C+
3932 3B AF 08 3C+
3932 4B B0 07 3C+
                                                                       4B AD 08 4C+
00 70 08 44+
00 70 08 44+
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0x27
   3932 00 70 08 44+
                          00 70 0A
47 27 08
2F A7 08
   3932
3932
                          3B 25 08 4C+
                                                                                                                                                                                                                                                                                                                                                                                                                                              FE, OxFF, OxFF; DATA XREF:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sub_0_2E04+98↑o
    39AA FE FE FE FF+
  39AA FF 00 FF 00+

39AA F0 00 FF 00+

39AA F0 00 FF 00+

39AB 70 00 FF
                                                                                                                                                                                                                                                                                                                                                                                                                                                        0000:0816†o
39D3 2D 26 08 50
39D7 3B 25 08 50
39DB 00 70 08 48
39DF 3B 24 07 40
                                                                                                                                                                                .db 0x2D, 0x26, 8, 0x50
                                                                                                                                                                                                                                                                                                                                                                                                                                     ; DATA XREF: animate_kong_and_pauline+4A<sup>†</sup>o
                                                                                                                                                                                                                                                                                                                                                                                                                                   ; DATA XREF: 0000:18701o
3A2F 7F 24 87 70 .db 0x7f, 0x24, 0x87, 0x70
3A33 74 29 88 6C .db 0x7f, 0x29, 0x88, 0x6C
3A37 070 88 68 .db 0, 0x70, 0x88, 0x6C
3A38 8A A9 88 6C .db 0x8A, 0xA9, 0x88, 0x6C
3A3F 00 70 88 68 .db 0, 0x70, 0x88, 0x6C
3A43 00 70 8A 68 .db 0, 0x70, 0x8A, 0x68
3A47 05 AF F0 50 draw_data_rivet_end1:.db 5, 0xAF, 0xF0, 0x50, 0xF0, 0xAA ; DATA X
3A53 05 AF E8 50 draw_data_rivet_end2:.db 5, 0xAF, 0xE8, 0x50, 0xE8, 0xAA ; DATA X
3A53 05 AF E0 50 draw_data_rivet_end3:.db 5, 0xAF, 0xE8, 0x50, 0xE8, 0xAA ; DATA X
3A59 05 AF D8 50 draw_data_rivet_end3:.db 5, 0xAF, 0xE8, 0x50, 0xE8, 0xAA ; DATA X
3A55 05 B7 58 48 draw_data_rivet_end5:.db 5, 0xAF, 0xE8, 0x50, 0xB8, 0xAA ; DATA X
3A56 01 04 01 03 draw_data_rivet_end5:.db 5, 0xB7, 0x58, 0x48, 0x58, 0xAA ; DATA X
3A65 01 04 01 03 draw_data_rivet_end5:.db 5, 0xB7, 0x58, 0x48, 0x58, 0xAA ; DATA X
3A73 01 02 01 03 draw_data_rivet_end5:.db 5, 0xB7, 0x58, 0xA8, 0x58, 0xAA ; DATA X
3A73 01 04 7F ; 0x10 02 01 03 draw_data_rivet_end5:.db 5, 0xB7, 0x58, 0xAF, 0xF8, 0xF8, 0xBA, 0xBR, 0xB
                                                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: 0000:17D9 o ; DATA XREF: 0000:17E5 o ; DATA XREF: 0000:17F1 o ; DATA XREF: 0000:17F1 o ; DATA XREF: 0000:18A5 o
                                                                                                                                                                                                                                                                                                                                                                                                                                                        DATA XREF: 0000:095F10
DATA XREF: 0000:179910
                                                                                                                                                                                                                                                                                                                                                                                                                                                          0000:1947†o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0xFE
 ; DATA XREF: sub_0_3202+65\u00f10
 3A8C DD DD DC DC+ .db 0xDD, 0xDC, 0x
  3AC4 E6 C8 D6 78+ ; DATA XREF: sub_0_3-3AC4 E6 F0 DB A0+ ...db 0xF0, 0xDB, 0xA0, 0xE6, 0xC8, 0xE6, 0xC8
3AD4 1B C8 23 A0+rivet_fireball_start_points:.db 0x1B, 0xC8, 0x23, 0xA0, 0x2B, 0x78, 0x12, 0xF0, 0x1B
                         2B 78 12 F0+ ; DATA XREF: sub_0_34B9+:
1B C8 23 A0+ .db 0xC8, 0x23, 0xA0, 0x12, 0xF0, 0x1B, 0xC8
02 97 38 68+barrel_level_tilemap_data:.db 2, 0x97, 0x38, 0x68, 0x38, 2, 0x9F, 0x54, 0x10, 0x54
38 02 9F 54+ ; DATA XREF: 0000:0CD4↑o
   3AD4 2B 78
                                                                                                                                                                                                                                                                                                                                                                                                                                          ; DATA XREF: sub_0_34B9+3410
    3AD4
    3AE4
  3AE4 50 02 9F 34F
3AE4 10 54 02 DF+
3AE4 58 A0 55 02+
3AE4 EF 6D 20 79+
3AE4 02 DF 9A 10+
                                                                                                                                                                              .db 2, 0xDF, 0x58, 0xA0, 0x55, 2, 0xEF, 0x6D, 0x20, 0x79
.db 2, 0xDF, 0x9A, 0x10, 0x8E, 2, 0xEF, 0xAF, 0x20, 0xBB
.db 2, 0xDF, 0xDC, 0x10, 0xD0, 2, 0xFF, 0xFO, 0x80, 0xFF
                                                                                                                                                                                                                  0x7F, 0xF8,
0xCB, 0x99,
0x63, 0x18,
0x33, 0x78,
                                                                                                                                                                                                                                                                                                                                                   0xCB, 0x57, 0xC
0, 0xCB, 0xDB,
1, 0x63, 0xD5,
                                                                                                                                                                                                                                                                                                                                                                                                                   0xCB, 0x6F
OB, 0xCB, 0xF3
O5, 0x63, 0xF8
                                                                                                                                                                                .db
                                                                                                                                                                                                                                                                                                    0xF8, 0,
CB, 0xB1,
   3AE4 8E 02 EF AF+
                                                                                                                                                                                                    2, 0x7F,
   3AE4 20 BB
3AE4 DC 10
                                                            02 DF+
   3AE4 DC 10 D0 02+
3AE4 FF F0 80 F7+
                                                                                                                                                                                                    0, 0x63,
                                                                                                                                                                                                                                                                                    0x63,
                                                                                                                                                                                                                                                                                                                    0x54,
                                                                                                                                                                                .db
                                                                                                                                                                                                                    0x33, 0x78, 0x33, 0x90,
0x53, 0x18, 0x53, 0x54,
0x5B, 0x76, 0x5B, 0x92,
                                                                                                                                                                                                                                                                                                                                                   0, 0x33, 0xBA, 0x33, 0xD2
1, 0x53, 0x92, 0x53, 0xB8
0, 0x73, 0xB6, 0x73, 0xD6
                                                                                                                                                                                  .db 0.
    3AE4 02 7F F8 00+
3AE4 F8 00 CB 57+
                                                                                                                                                                                .db
```

3AE4 CB 6F 00 3AE4 99 CB B1

3AE4 CB DB CB F3+ 3B5D 06 8F 90 70+

3B5D 90 06 8F 98+

3B5D 70 98 06 8F+ 3B5D A0 70 A0 00+ 3B5D 63 18 63 58+ 3B5D 00 63 80 63+ 3B5D A8 00 63 D0+

00 CB+

.db 0, 0x83, 0x95, 0x83,

.db

.db

0xB5, 0, 0x93, 0x38, 0x93,

0xBB, 0x70, 0xBB, 0x98, 1, 0x6B, 0x54, 0x6B, 0x75

; DATA XREF: 0000; sub_0_2441+2010 db 6, 0x8F, 0xA0, 0x70, 0xA0, 0, 0x63, 0x18, 0x63, 0x58 db 0, 0x63, 0x80, 0x63, 0xA8, 0, 0x63, 0xD0, 0x63, 0xF8 db 0, 0x53, 0x18, 0x53, 0x58, 0, 0x53, 0xA8, 0x53, 0xD0 db 0, 0x9B, 0x80, 0x9B, 0xA8, 0, 0x9B, 0xD0, 0x9B, 0xF8

70-cement_pie_level_tilemap_data:.db 6, 0x8F, 0x90, 0x70, 0x90, 6, 0x8F, 0x98, 0x70, 0x98 98+ ; DATA XREF: 0000:0CDF

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst
                                                                                                                                                   13/12/2013, 11:27:28 PM
  3B5D 63 F8 00 53+
                                                                         .db 1,
                                                                                                    0x58,
                                                                                                                 0x23,
                                                                                                                                                   0xDB,
  3B5D
            18
                  53 58 00+
                                                                         .db 0.
                                                                                      0x2B,
0xA3,
0xD3,
0x97,
0xF7,
0xA7,
0x3F,
                                                                                       0x2B.
                                                                                                    0x80.
                                                                                                                 0x2B.
                                                                                                                               0xA8.
                                                                                                                                            0.
                                                                                                                                                  0xD3.
                                                                                                                                                               0x80.
                                                                                                                                                                            0xD3.
                                                                                                                                                                                         0xA8
                                                                                                                                           0, 0xD3, 0x80, 0xD3, 0x88
0, 0x2B, 0xD0, 0x2B, 0xF8
0, 0x93, 0x38, 0x93, 0x58
3, 0xEF, 0x58, 0x10, 0x58
3, 0x77, 0x80, 8, 0x80
2, 0xE7, 0xA8, 0xB8, 0x88
3, 0xEF, 0xD0, 0x10, 0xD0
0xAA
0x63, 0x58, 0, 0x63, 0x88
           53 A8 53 D0+
00 9B 80 9B+
A8 00 9B D0+
                                                                         .db
.db
                                                                                                                               0xD0,
0xF8,
0x38,
  3B5D
                                                                                                    0xA8
                                                                                                                 0xA3,
                                                                                                     0xD0,
0x38,
                                                                                                                 0xD3,
0x68,
 3B5D 9B F8 01 23+
3B5D 58 23 80 01+
3B5D DB 58 DB 80+
                                                                         .db
                                                                                                    0x80,
                                                                                                                 0x88,
                                                                                                                               0x80,
                                                                          .db 2, .db 2, .db 2,
                                                                                                    0xA8,
0xA8,
0xF8,
                                                                                                                 0x50,
0x18,
0x10,
                                                                                                                              0xA8,
0xA8,
0xF8,
 3B5D DB
3B5D 00
                                                                         .db
                  2B 80 2B+
                                                                       ..., OADD, U, 0X63, 0X88, 0X63, 0XD0
; DATA XREF: 0000:0CFA|o
; BUD_0_2441+27|o

.db 0, 0x53, 0x18, 0x53, 0x58, 0, 0x53, 0x88, 0x53, 0xD0

.db 0, 0xE3, 0x68, 0xE3, 0x90, 0, 0xE3, 0xB8, 0xE3, 0xD0

.db 0, 0xCB, 0x90, 0xCB, 0xB0, 0, 0xB3, 0x58, 0xB3, 0x78

.db 0, 0xCB, 0x90, 0xCB, 0xA0, 0, 0x93, 0x38, 0x93, 0x58

.db 0, 0x23, 0x88, 0x23, 0xC0, 0, 0x18, 0xC0, 0x1B, 0xC0

.db 2, 0x97, 0x38, 0x68, 0x38, 2, 0xP7
                                                                                                                              0x18, 0x63, 0x58, 0, 0x63, 0x88, 0x63, 0xD0
  3BE5 00 63 18 63+elevator level tilemap data:.db 0,
  3BE5
                         63 88+
  3BE5
                  53 58 00+
            18
           53 88 53 D0+
00 E3 68 E3+
90 00 E3 B8+
 3BE5
 3BE5
3BE5
  3BE5 90 00 E3 B8+
3BE5 E3 D0 00 CB+
                                                                                                                              0xC0, 0, 0, 0, 0, 0x38, 2, 0, 0x68, 2, 0, 0x78, 2, 0, 0x90, 2, 0, 0x90, 2, 0, 0xB8, 2, 0, 0xF8, 0xBA, 80, 0xF8, 0xAB, 80, 0xF8, 0xBA
           90 CB B0 00+
B3 58 B3 78+
00 9B 80 9B+
                                                                         .db
.db
                                                                                       0x97,
0xEF,
0xBF,
0x67,
                                                                                                    0x38,
0x68,
0x78,
                                                                                                                                                               0x58,
0x70,
0x80,
 3BE5
  3BE5
3BE5
                                                                                                                 0xE0,
0xB0,
                                                                                                                                                  0xD7,
0xA7,
                                                                                                                                                                            0xC8,
0x90,
3BE5 93 58 00 23+ .db 2, 0xEF, 0x90, 0xC8, 0x90, 2, 0xA7, 0xB0, 0xC8, 0xB0
3BE5 82 32 C0 00+ .db 2, 0xEF, 0xB8, 0xEO, 0xB8, 2, 0x27, 0xC0, 0x10, 0xC0
3BE5 1B C0 1B E8+ .db 2, 0xEF, 0xB8, 0xEO, 0xB8, 2, 0x27, 0xC0, 0x10, 0xC0
3BE5 02 97 38 68+ .db 2, 0xEF, 0xD0, 0xD8, 0xD0, 2, 0xE7, 0xD0, 0x50, 0xD0
3BE5 38 02 E7 58+ .db 2, 0xCF, 0xD0, 0xD8, 0xC0, 0xD8, 2, 0xE7, 0xE0, 0xA8, 0xE0
3BE5 10 58 02 EF+ .db 2, 0xCF, 0xER, 0xB8, 0xE0, 2, 0xE7, 0xE0, 0xA8, 0xE0
3BE5 68 E0 68 02+ .db 2, 0xFF, 0xFR, 0x10, 0xFR, 0xA8
3CEB 00 7B 80 7B+rivet_level_tilemap_data:.db 0, 0x7B, 0xE8, 0xA8, 0, 0x7B, 0xD0, 0x7B, 0xD0, 0x7B, 0xE8
3CEB 00 7B 80 7B+rivet_level_tilemap_data:.db 0, 0x7B, 0xB0, 0x7B, 0xA8, 0, 0x7B, 0xD0, 0x7B, 0xE8
3CEB 58 33 80 00 + .db 0, 0x33, 0x58, 0x33, 0x80, 0, 0xCB, 0x58, 0xCB, 0x80
3CEB 58 33 80 00+ .db 0, 0x33, 0x58, 0x33, 0x80, 0, 0xCB, 0x58, 0xCB, 0x80
3CEB 58 33 80 00+ .db 0, 0x3B, 0x58, 0xAB, 0xCB, 0xB0, 0xCB, 0xB0, 0xB3, 0xAB
  3BE5 A0 00 93
                               38+
                                                                         .db
                                                                                                    0x88
                                                                                                                 0x48.
                                                                                                                                                  0x27.
                                                                                                                                                               0x88.
                                                                                                                                                                            0x10.
                                                                                                                                                                                         0x88
                                                                        .db 0, 0xAB, 0x58, 0xAB, 0x80, 0, 0xCB, 0x58, 0xCB, 0x80
.db 0, 0x2B, 0x80, 0x2B, 0xA8, 0, 0xD3, 0x80, 0xD3, 0xA8
.db 0, 0x23, 0xA8, 0x23, 0xD0, 0, 0x5B, 0xA8, 0x5B, 0xD0
.db 0, 0xA3, 0xA8, 0xA3, 0xD0, 0, 0xBB, 0xA8, 0xDB, 0xD0
  3C8B 00 AB 58 AB+
3C8B 80 00 CB 58+
3C8B CB 80 00 2B+
                 2B A8 00+
80 D3 A8+
23 A8 23+
                                                                                       0x1B,
0xB7,
0xD7,
                                                                                                    0xB0,
0xB0,
0x80,
                                                                                                                 0x1B,
0x48,
0x28,
                                                                                                                               0xF8,
0x30,
0x80,
                                                                                                                                           0,
5,
5,
                                                                                                                                                  0xE3,
0xCF,
0xDF,
                                                                                                                                                               0xD0,
0x58,
0xA8,
                                                                                                                                                                            0xE3,
0x30,
                                                                                                                                                                                         0xF8
0x58
  3C8B 80
                                                                          .db
  3C8B D3
3C8B 00
                                                                         .db
 3C8B D0 00 5B
3C8B 5B D0 00
3CF0 10 82 85
3CF0 10 85 80
3CF0 10 87 85
                                                                                       0xE7, 0xD0, 0x18, 0xD0, 5, 0xEF, 0xF8, 0x10, 0xF8
                               A8+
                                                                         .db
                               A3+
                                                                          .db
                               8B+draw_data_how_high:.db 0x10, 0x82, 0x85, 0x88, 0x10, 0x85, 0x80, 0x88, 0x10
                                                                                                                                                                                    DATA XREF: 0000:0C5010
                               8B+
                                                                        .db 0x87, 0x85, 0x8B, 0x81, 0x80, 0x80, 0x8B, 0x81, 0x82
.db 0x85, 0x8B, 0x81, 0x85, 0x80, 0x8B
.db 5 ; DATA XR
                               8B+
  3CF0 81 80 80 8B+
3D08 05
                                     title_screen:
  3D08
                                                                                                                                                                                 ; RLE-encoded "DONKEY KONG" title
3D09 C
3D0B 01
3D0C 68 77
3D0E 01
3D0F 6C 77
                                                                          .dw VRAM_start+0x388
                                                                         .db
                                                                                 VRAM_start+0x368
                                                                          .dw
                                                                         .db
 3D0F
3D11
3D12
                                                                         .dw VRAM_start+0x36C
.db 3
            49 77
                                                                         .dw VRAM_start+0x349
 3D14 05
3D15 08 77
3D17 01
3D18 E8 76
                                                                         .db
                                                                         .dw VRAM_start+0x308
.db 1
                                                                          .dw VRAM_start+0x2E8
 3D1A 01
3D1B EC 76
3D1D 05
                                                                          .db
                                                                         .dw VRAM_start+0x2EC
.db 5
  3D1D 05
3D1E C8 76
                                                                         .dw VRAM start+0x2C8
  3D20 05
                                                                         .db 5
           88 76
02
                                                                         .dw VRAM_start+0x288
.db 2
  3D24 69 76
                                                                         .dw VRAM_start+0x269
 3D26 02
3D27 4A 76
3D29 05
                                                                          dh 2
                                                                         .dw VRAM_start+0x24A
                                                                         .db
 3D2A 28 76
                                                                         .dw VRAM_start+0x228
                                                                         .db 5
.dw VRAM_start+0x1E8
  3D2C
  3D2D E8 75
  3D2F
            01
                                                                         .db
  3D30 CA 75
                                                                          .dw VRAM_start+0x1CA
  3D30 CA 75
3D32 03
3D33 A9 75
3D35 01
                                                                          .db
                                                                         .dw VRAM_start+0x1A9
                                                                         .db
 3D36 88 75
                                                                         .dw VRAM_start+0x188
.db 1
           01
8C 75
                                                                         .dw VRAM_start+0x18C
  3D3B 05
                                                                         .db
           48 75
01
28 75
                                                                         .dw VRAM_start+0x148
.db 1
  3D3E
3D3F
                                                                         .dw VRAM_start+0x128
  3D41 01
                                                                         .db
           2A 75
01
2C 75
01
  3D42
3D44
                                                                         .dw VRAM_start+0x12A
.db 1
                                                                         .dw VRAM_start+0 \times 12C
.db 1
  3D45
3D47
  3D48 08 75
                                                                         .dw VRAM_start+0x108
.db 1
  3D4B 0A 75
                                                                         .dw VRAM_start+0x10A
  3D4D 01
                                                                          .db
  3D4D 01
3D4E 0C 75
3D50 03
3D51 C8 74
                                                                         .dw VRAM_start+0x10C
.db 3
                                                                          .dw VRAM_start+0xC8
 3D53 03
3D54 AA 74
3D56 03
3D57 88 74
                                                                          .db
                                                                         .dw
                                                                                 VRAM_start+0xAA
                                                                         .dw VRAM start+0x88
                                                                         .db 5
.dw VRAM_start+0x32F
  3D59 05
                                                                         .db
  3D5D 0F 77
                                                                          .dw VRAM_start+0x30F
                                                                         .db 2
.dw VRAM_start+0x2F0
  3D62
                                                                         .db
  3D63 CF 76
                                                                          .dw VRAM start+0x2CF
  3D65 02
3D66 D2 76
                                                                         .db
                                                                                 VRAM_start+0x2D2
                                                                          .dw
  3D68
           05
8F 76
                                                                         .db
                                                                         .dw
  3D69
                                                                                 VRAM_start+0x28F
 3D6B 05
3D6C 6F 76
                                                                                 VRAM_start+0x26F
```

.dw

.db

.dw VRAM_start+0x24F

3D6E 01

3D6F 4F 76

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
3D71 01
3D72 53 76
                                              .dw VRAM start+0x253
3D72 53 76
3D74 05
3D75 2F 76
3D77 05
3D78 EF 75
                                              .db 5
.dw VRAM_start+0x22F
.db 5
                                              .dw VRAM_start+0x1EF
                                              .db 2
3D7B D0 75
3D7D 02
                                              .dw VRAM_start+0x1D0
                                              .db
3D7E B1 75
                                              .dw VRAM start+0x1B1
3D80 05
3D81 8F 75
                                              .db 5
.dw VRAM_start+0x18F
3D81 8F
3D83 03
                                              .db
3D84 50 75
3D86 05
3D87 2F 75
                                              .dw VRAM_start+0x150
                                              .db
                                              .dw VRAM_start+0x12F
 3D89 01
                                              .db
3D89 01
3D8A 0F 75
3D8C 01
3D8D 13 75
                                              .dw VRAM_start+0x10F
.db 1
                                              .dw VRAM_start+0x113
3D8F
                                              .db
3D97 01
3D90 EF 74
3D92 01
3D93 F1 74
                                              .dw VRAM_start+0xEF
                                              .dw VRAM start+0xF1
3D95 01
                                              .db
3D96 F3 74
3D98 02
3D99 D1 74
                                              .dw VRAM_start+0xF3
.db 2
                                              .dw VRAM start+0xD1
DATA XREF: 0000:0FE2↑0
0000:101F↑0 ...
DATA XREF: 0000:1131↑0
DATA XREF: 0000:0FEF↑0
DATA XREF: 0000:0FF5↑0
DATA XREF: 0000:0FF5↑0
DATA XREF: 0000:104F10
DATA XREF: 0000:104F10
DATA XREF: init_hammer_sprites+910
DATA XREF: 0000:100010
DATA XREF: 0000:107010
3E48 5B 73 0A C8+elevator_obj_spr:.db 0x5B, 0x73, 0xA, 0xC8, 0xE3, 0x74, 0xA, 0x60, 0x1B
3E48 E3 74 0A 60+
3E48 E3 75 0A 80
.db 0x75, 0xA, 0x80
3E54 DB 73 0A C8+rivet_obj_spr:.db 0xDB, 0x73, 0xA, 0xC8, 0x93, 0x74, 0xA, 0xF0, 0x33
                  3E54 DB 73 OA C8+:
3E54 93 74 OA F0+
3E54 33 75 OA 50
3E60 44 03 08 04 03
3E64 37 F4 37 C0+
3E64 77 8C 77 70+
3E64 77 A4 77 D8
3E70
                                                                                                                ; DATA XREF: 0000:114310
                  .db 0xA4, 0x77, 0xD8
3E70
3E70
                       loc_0_3E70:
                                                                                                               ; CODE XREF: sub_0_1DBD+1A j
3E70
3E70 11 01 00
3E73
                                                        de, #1
3E73
3E73 06 7B
3E75 1F
                       loc_0_3E73:
                                             ld
                                                        b, #0x7B ; '{'
                                              rra
3E76 D2 28 1E
                                                        NC, loc_0_1E28
                                              jp
ld
3E70 B2 20
3E79 1E 03
3E7B 06 7D
3E7D 1F
                                                        e, #3
b, #0x7D; '}'
                                              ld
                                              rra
 3E7E D2 28 1E
                                                        NC, loc_0_1E28
                                              jp
ld
3E81 1E 05
3E83 06 7F
3E85 C3 28 1E
                                                        e, #5
b, #0x7F; ''
                                                        loc 0 1E28
                                              qŗ
3E88
3E88
3E88
                                             SUBROUTINE
 3E88
3E88
                                                                                                                ; CODE XREF: sub 0 2853+18 p
                       sub 0 3E88:
3E88 3A 27 62
3E8B E5
3E8C EF
3E8C
                                              ld
                                                            (level_type)
                                             push
                                                        0x28
                                              rst
                                                                                                                ; go!
3E8D 00 00
                                                                                                                ; Jump table
3E8F 99 3E
3E91 B0 28
                                              .dw loc_0_3E99
                                              .dw 12 check hammer hit
3E91 B0 28
3E93 E0 28
3E95 01 29
3E97 00 00
                                              .dw 13_check_hammer_hit
.dw 14_check_hammer_hit
                                              .dw 0
3E99
3E99
3E99
3E99 E1
                       loc_0_3E99:
                                                                                                                ; DATA XREF: sub_0_3E88+71o
3E99 E1
3E9A AF
3E9B 32 60 60
3E9E 06 0A
3EAO 11 20 00
3EA3 DD 21 00 67
3EA7 CD C3 3E
3EAA 06 05
3EAC DD 21 00 64
3EB0 CD C3 3E
3EB3 3A 60 60
3EB6 A7
3EB7 C8
                                              gog
                                              xor
                                              ld
ld
                                                        (unk_0_6060), a
b, #0xA
de, #0x20; ''
ix, #unk_0_6700
                                              ld
                                              ld
                                              call
ld
                                                         sub_0_3EC3
                                                        ix, #unk_0_6400
                                                                                                              ; fireball character data
                                              ld
```

call ld and

ret

3EB7 C8

3EB8 FE 01

sub_0_3EC3 a, (unk_0_6060)

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 13/12/2013, 11:27:28 PM
3EBA C8
                                                      ret
 3EBB FE 03
                                                      cp
ld
                                                                   #3
3EBD 3E 03
3EBF D8
3EC0 3E 07
                                                                   a, #3
C
a, #7
                                                      ret
ld
3EC2 C9
3EC2
3EC2
3EC3
                                                      ret
                           ; End of function sub_0_3E88
                                  SUBROUTINE
 3EC3
3EC3
3EC3
3EC3
                                                                                                                                     ; CODE XREF: sub_0_3E88+1F<sup>†</sup>p
                           sub_0_3EC3:
3EC3 DD CB 00 46
3EC3
3EC7 CA FA 3E
3ECA 79
                                                                                                                                     ; sub_0_3E88+281p ...
                                                                   0, 0(ix)
Z, loc_0_3EFA
                                                      bit
                                                      jp
ld
3ECA 79
3ECB DD 96 05
3ECE D2 D3 3E
3ED1 ED 44
                                                      sub
                                                       jp
                                                                   NC, loc_0_3ED3
                                                      neg
 3ED3
3ED3
3ED3
3ED3 3C
3ED4 95
                           loc_0_3ED3:
                                                                                                                                    ; CODE XREF: sub_0_3EC3+B|j
                                                      sub
3ED5 DA DE 3E
3ED8 DD 96 OA
3EDB D2 FA 3E
                                                                   C, loc_0_3EDE
0xA(ix)
NC, loc_0_3EFA
                                                      jp
sub
                                                      jр
3EDE
3EDE
                           loc 0 3EDE:
                                                                                                                                     ; CODE XREF: sub 0 3EC3+121i
3EDE FD 7E 03
3EE1 DD 96 03
3EE4 D2 E9 3E
                                                                   a, 3(iy)
3(ix)
NC, loc_0_3EE9
                                                      ld
                                                      sub
                                                      qį
3EE7 ED 44
3EE9
3EE9
3EE9 94
                                                      neg
                           loc_0_3EE9:
                                                                                                                                    ; CODE XREF: sub_0_3EC3+21 j
                                                      sub
3EEA DA F3 3E
3EED DD 96 09
3EFO D2 FA 3E
                                                                   C, loc_0_3EF3
9(ix)
NC, loc_0_3EFA
                                                      jp
sub
                                                      jр
3EF3
3EF3
3EF3 3A 60 60
3EF6 3C
3EF7 32 60 60
                           loc 0 3EF3:
                                                                                                                                    ; CODE XREF: sub 0 3EC3+271j
                                                                   a, (unk_0_6060)
                                                      ld
                                                      inc
                                                                   (unk_0_6060), a
                                                      ld
                           loc_0_3EFA:
                                                                                                                                     ; CODE XREF: sub_0_3EC3+4^j; sub_0_3EC3+18^j ...
3EFA DD 19
SEFA
                                                      add
                                                                   ix de
3EFC 10 C5
3EFE C9
                                                      djnz
                                                                   sub_0_3EC3
                                                      ret
                            ; End of function sub_0_3EC3
3EFE
3EFE
3EFE
3EFF 00
                                                      .db
3EFF 00 .db 0;
3F00 5C 76 aCOPYRIGHT_1981:.dw VRAM_start+0x25C ; DATA XREF: 0000:3687|0
3F02 49 4A 01 09+ .db 0x49, 0x4A, 1, 9, 8, 1, 0x3F
3F09 7D 77 aNINTENDO_OF_AMERICA_INC:.dw VRAM_start+0x37D ; DATA XREF: 0000:3689|0
3F0B IE 19 1E 24+aNINTENDO: .db 0x1E, 0x19, 0x1E, 0x24, 0x15, 0x1E, 0x14, 0x1F, 0x10
3F0B 15 1E 14 1F+
3F0B 10 1F 16 10+
3F0B 11 1D 15 22+
                                                                                                                                     ; DATA XREF: sub_0_2441 o
                                                     .db 0x1F, 0x16, 0x10, 0x11, 0x1D, 0x15, 0x22, .db 0x11, 0x10, 0x19, 0x1E, 0x13, 0x2B, 0x3F
3F0B 11 1D 15
3F24
3F24
3F24
3F24
3F24
3F24
3F24 21 AF 74
3F27 11 E0 FF
3F2A 36 9F
3F2C 19
                                            SUBROUTINE
                                                                                                                                    ; CODE XREF: 0000:081C1p
                           display_tm:
                                                                  hl, #VRAM_start+0xAF
de, #0xFFE0
(hl), #0x9F; 'f'
hl, de
(hl), #0x9E; 'x'
                                                      14
                                                      ld
ld
                                                      add
 3F2D 36 9E
                                                      ld
ret
3F2F C9
3F2F
                            ; End of function display_tm
3F2F ;
3F2F ;
3F2F ;
3F3O 52 4F 47+aProgramWeWouldTeachYou_Tel_toky:.ascii 'PROGRAM, WE WOULD TEACH YOU.*****TEL.TOKYO-JAPAN 044(244)'
3F3O 52 41 4D 2C+ .ascii '2151 EXTENTION 304 SYSTEM DESIGN IKEGAMI CO. LIM.'
3FA0
3FA0
3FA0
3FA0
3FA0 CD A6 3F
3FA3 C3 5F 0D
3FA6
3FA6
                                                                                                                                     ; CODE XREF: 0000:0CD1<sup>†</sup>j
                            init_level_data_tmrs_spr:
                                                                fix_retractable_ladders
init_level_data_tmrs_spr_cont
                                                      call
                                                     jp
                                  SUBROUTINE
3FA6
3FA6
3FA6
3FA6
3FA6 3E 02
3FA8 F7
3FA9 06 02
3FAB 21 6C 77
3FAE
                                                                                                                                     ; CODE XREF: 0000:3FA01p; ladders for cement pie level; return if level bit not set
                           fix_retractable_ladders:
                                                      ld
rst
                                                                 a, #:
0x30
                                                                   b, #2
hl, #VRAM_start+0x36C
                                                      ld
3FAE 36 10 3FBO 23 3FB1 23
                           loc_0_3FAE:
                                                                                                                                    ; CODE XREF: fix retractable ladders+11-j
                                                      1d
                                                                   (hl), #0x10
                                                      inc
inc
                                                                   hl
hl
                                                                            #0xC0 ; L
3FB2 36 C0
3FB4 21 8C 74
3FB7 10 F5
                                                                   (h1), #0xC0; 'L'
h1, #VRAM_start+0x8C
loc_0_3FAE
                                                      1d
                                                      djnz
 3FB9 C9
                                                      ret
3FB9
3FB9
3FB9
                            ; End of function fix_retractable_ladders
3FB9 3FB9 00 00 00 00+
3FC0 3FC0 3FC0 3FC0 3FC0 3FC0 21 4D 69
3FC3 36 03 3FC5 2C 3FC6 2C 3FC7 C9 3FC7
                                                      .db 0, 0, 0, 0, 0, 0
                                                      SUBROUTINE
                            sub_0_3FC0:
                                                                                                                                     ; CODE XREF: 0000:22851p
                                                                   hl, #soft_sprite_ram+0x4D
                                                                   (hl), #3
                                                      ld
```

ret ; End of function sub_0_3FC0

```
.db 0, 0, 0x41, 0x7F, 0x7F, 0x41, 0, 0, 0, 0x7F, 0x7F .db 0x18, 0x3C, 0x76, 0x63, 0x41, 0, 0, 0x7F, 0x7F, 0x .db 0x49, 0x49, 0x41, 0, 0x1C, 0x3E, 0x63, 0x41, 0x49 .db 0x79, 0x79, 0, 0x7C, 0x7E, 0x13, 0x11, 0x13, 0x7E .db 0x7C, 0, 0x7F, 0x7F, 0xE, 0x1C, 0xE, 0x7F, 0x7F, 0 .db 0, 0x41, 0x7F, 0x7F, 0x41, 0, 0
 3FC8 00 00 41 7F+
3FC8 00 00 41 7F+
3FC8 7F 41 00 00+
3FC8 00 7F 7F 18+
3FC8 3C 76 63 41+
3FC8 00 00 7F 7F+
3FC8 00 1C 3E 63+
3FC8 00 1C 3E 63+
3FC8 41 49 79 79+
                                63+; end of 'ROM'
79+
6000
6000
6000
6000
                                       ; Segment type: Regular ; segment 'RAM'
6000
6000 ??
6001 ??
6001
                                                                             .org 0x6000
                                                                                                                                                                                           ; DATA XREF: 0000:0268†o
; DATA XREF: display_credits+5†o
; 0000:073F†r ...
                                       RAM start:
                                                                            .ds 1
                                       no_of_credits:
6002 ??
6003 ??
6004 ??
6005 ??
                                                                             .ds 1
                                       coin_state:
                                                                              .ds
                                                                                                                                                                                            ; DATA XREF: check_coin_inserted+5<sup>o</sup>
                                                                              .ds
                                                                                                                                                                                            ; DATA XREF: 0000:00C61r
                                      nmi_sequencer: .ds
6005
6006 ??
6007 ??
6008 ??
                                                                                                                                                                                            ; check_coin_inserted+12\uparrowr ..
                                       attract_mode_flag:.ds 1
                                                                                                                                                                                           ; DATA XREF: return_NOT_16bit_timeout10; DATA XREF: return_NOT_8bit_timeout10; 0000:078E10...; DATA XREF: 0000:01EE1w; 0000:06FE1r...
                                       sixteen_bit_countdown_msb:.ds 1
eight_bit_countdown:.ds 1
6009*??
6009*
600A ??
                                       main sequencer: .ds 1
600A
600B ??
600C ??
600D ??
                                      .us 1
.ds 1
current_player_D:.ds 1
current_player_E:.ds 1
two_players: .ds 1
controller_in: .ds 1
600E ??
600F ??
6010 ??
6010
                                                                                                                                                                                            ; DATA XREF: 0000:00AC\dagger\w
; 0000:1502\dagger\r...
6010
6011 ??
6012 ??
6013 ??
6014 ??
6015 ??
6016 ??
6017 ??
6018 601A ??
                                                                             .ds
                                      last_raw_in:
                                                                             .ds
                                                                              .ds
                                                                             .ds
                                                                              .ds
                                                                                                                                                                                            ; DATA XREF: rand↑r
                                       random_no:
                                                                             .ds 2
                                                                                                                                                                                            ; rand+B|w ...; DATA XREF: rand+3|o; 0000:00B5|o ...
                                       gen_purpose_timer:.ds 1
601A
601B ??
601C ??
601D ??
                                                                              ds 1
601B ??
601C ??
601D ??
601E ??
601F ??
6020 ??
                                                                             .ds
.ds
                                                                              .ds
                                                                               de
                                                                                                                                                                                               DATA XREF: read_dips_and_high_score_tbl+4\(^1\) 0000:0922\(^1\) ...

DATA XREF: check_and_award_bonus+1E\(^1\) 07/10/15/20K

DATA XREF: check_coin_inserted+27\(^1\) 0

DATA XREF: 0000:0087\(^1\) r
                                       lives_per_game:
                                                                            .ds
6021 ?? bonus_se
6021 6022 ?? ?? ?? ?? coinage:
6026 ?? upright:
                                      bonus_setting: .ds 1
                                                                             .ds 4
6026
6027
6028
6029
                                                                                                                                                                                                0000:099Ffr ...
6026
6027 ??
6028 ??
6029 ??
602B ??
602C ??
602D ??
602E ??
602F ??
6030 ??
                                                                             .ds
.ds
.ds
                                                                              .ds
                                                                             .ds
                                                                             .ds
                                                                              dя
                                      unk_0_6030:
                                                                                                                                                                                            ; DATA XREF: 0000:1499 o
                                                                             .ds
6030 ??
6030
6031 ??
6032 ??
6032
6033 ??
6034 ??
6035 ??
                                                                                                                                                                                            ; 0000:14FC<sup>1</sup>o
                                      unk_0_6031:
unk_0_6032:
                                                                              ds 1
                                                                            .ds
                                                                                                                                                                                            ; DATA XREF: 0000:158A\u00e10
; 0000:15B2\u00e1w
                                                                              .ds
                                      unk_0_6034:
unk_0_6035:
unk_0_6036:
                                                                             .ds
                                                                                                                                                                                            ; DATA XREF: 0000:14DC\u00f30
                                                                             .ds
6036 ??
6037 ??
6038 ??
6039 ??
603B ??
603C ??
603D ??
603E ??
603F ??
6040 ??
                                                                             .ds
.ds
.ds
                                      unk_0_6038:
                                      unk 0 603A:
                                                                              .ds
                                                                             .ds
                                                                              .ds
                                                                              .ds
                                                                            .ds
                                      p1_level_data:
                                                                                                                                                                                             ; DATA XREF: 0000:093E10
6040 ??
6040
6040
6041 ??
6042 ?? ??
6044 ??
6045 ??
6046 ??
6047 ??
6048 ??
                                                                                                                                                                                            ; 0000:09ABîo ...; game init data copied here
                                                                              .ds
                                                                             .ds
.ds
                                                                                                                                                                                            ; ptr sequence data
                                                                              .ds
                                                                              .ds
                                                                              .ds
                                                                                                                                                                                            ; DATA XREF: 0000:090910
                                      p2 level data:
                                                                             .ds
                                                                                                                                                                                            ; 0000:091F†o ...
6048
6049 ??
604A ??
604B ??
604C ??
604E ??
604F ??
6051 ??
6051 ??
6053 ??
6054 ??
6056 ??
6057 ??
                                                                              .ds
                                                                             .ds
                                                                              .ds
                                                                             .ds
.ds
.ds
.ds
                                                                             .ds
.ds
.ds
.ds
.ds
                                                                             .ds
.ds
.ds
605A
                                                                              .ds
605B ??
```

```
605C ??
605D ??
605E ??
605F ??
605F ??
6061 ??
6062 ??
6061 ??
6062 ??
6064 ??
6066 ??
6067 ??
6068 ??
6069 ??
6068 ??
6060 ??
6060 ??
6060 ??
6060 ??
6070 ??
6071 ??
6071 ??
6072 ??
6073 ??
6074 ??
6075 ??
6076 ??
6077 ??
6078 ??
6078 ??
                                                                                                                                       .ds
                                                                                                                                     607C
607D
607E
607F
                     ??
                                                                                                                                     .ds
.ds
                                                                                                                                       .ds
 607F ??
6080 ??
6080
6081 ??
6082 ??
6082
6083 ??
6084 ??
                                                                    digital_snd_tmr_walk:.ds 1
                                                                                                                                                                                                                                                                                                                                   ; DATA XREF: update_sounds o
                                                                                                                                                                                                                                                                                                                                         DATA XREF: upuate_ounidage
stop_sound+6fo ...
DATA XREF: sub_0_1AC3+E9fo
DATA XREF: animate_kong_and_pauline+52fw
                                                                     digital_snd_tmr_jump:.ds
                                                                     digital_snd_tmr_thump:.ds 1
                                                                                                                                                                                                                                                                                                                                   ; 0000:0B451w
                                                                      digital_snd_tmr_coin_spring:.ds 1
                                                                    digital_snd_tmr_kong_fall:.ds 1
digital_snd_tmr_barrel_jump_priz:.ds 1
                                                                                                                                                                                                                                                                                                                                   ; DATA XREF: sub_0_1DBD+25\u00f10
  6085
6086 ??
6087 ??
6088 ??
                                                                                                                                                                                                                                                                                                                                   ; sub_0_1DBD+871o ...
                                                                     digital_snd_tmr_6:.ds 1
                                                                   digital_snd_tmr_7:.ds 1 music_something:.ds 1
                                                                                                                                                                                                                                                                                                                                   ; DATA XREF: update_sounds+2E<sup>o</sup>
   6088
6089 ??
                                                                                                                                                                                                                                                                                                                                         0000:12A8|w
DATA XREF: 0000:067A|w
                                                                    bg_music:
                                                                                                                                   .ds 1
   6089
                                                                                                                                                                                                                                                                                                                                          0000:0CC01w
  608A ??
608A
608B ??
                                                                                                                                    .ds 1
                                                                                                                                                                                                                                                                                                                                          DATA XREF: 0000:0ADB10
                                                                   unk_0_608A:
                                                                                                                                                                                                                                                                                                                                        0000:0BB3\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10\u00e10
                                                                   unk_0_608B:
                                                                                                                                   .ds
  608C ??
608D ??
608E ??
608F ??
                                                                                                                                      .ds
                                                                                                                                     .ds
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.ds
 6090 ??
6091 ??
6092 ??
6093 ??
6094 ??
6096 ??
6097 ??
6098 ??
6098 ??
6098 ??
6098 ??
609B ??
609D ??
                                                                                                                                     609F ??
60A0 ??
60A1 ??
60A2 ??
60A3 ??
60A3 ??
60A6 ??
60A6 ??
60A8 ??
60A8 ??
60A0 ??
60AC ??
60AC ??
60AC ??
60AC ??
60AC ??
                                                                                                                                      .ds
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.ds
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                                                                                                                                       .ds
                                                                      fg_fn_queue_tail:
                                                                      fg_fn_queue_head:.ds
  60B2 ?? ?? ??
60B2
60B5 ?? ?? ??
                                                                     p1_score:
                                                                                                                                     .ds 3
                                                                                                                                                                                                                                                                                                                                   ; DATA XREF: 0000:01C91o
                                                                                                                                                                                                                                                                                                                                        DATA XREF: 0000:0102|
current_player_score_DE|
o ...
DATA XREF: current_player_score_DE+8|
o zero_score_or_high_score+D|
o ...
DATA XREF: add_bonus_and_update_high_score+37|
o zero_score_or_high_score+15|
o ...
                                                                    p2_score:
                                                                                                                                     .ds 3
   60B5
   60B8 ?? ?? ??
60B8 60BB ??
                                                                    high_score:
                                                                                                                                     .ds 3
.ds
                                                                                                                                                                                                                                                                                                                                   ; DATA XREF: 0000:0291 o
                                                                                                                                                                                                                                                                                                                                          Queue_fg_vector_fn+1\[ \]o
DATA XREF: read_dips_and_high_score_tbl+56\[ \] o
0000:3673\[ \] o
                                                                                                                                                                                                                                                                                                                                           DATA XREF: 0000:367510
                                                                                                                                                                                                                                                                                                                                          DATA XREF: 0000:367710
                                                                                                                                                                                                                                                                                                                                            DATA XREF: 0000:36791o
                                                                                                                                                                                                                                                                                                                                            4th
                                                                                                                                                                                                                                                                                                                                          DATA XREF: 0000:367B10
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61AA ??
61AB ??
61AC ??
61AC ??
61AC ??
61AC ??
61BC ??
61B2 ??
61B3 ??
61B4 ??
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61B7 ??
61B8 ??
61B8 ??
61B7 ??
61B8 ??
61B7 ??
61B8 ??
61B7 ??
61B8 ??
61B9 ??
                                                                                                                          .ds
                                                                                                                           .ds
                                                                                                                         unk_0_61B1:
                                                                                                                                                                                                                                                                                                        ; DATA XREF: sub_0_13CA+D↑o
                                                                                                                                                                                                                                                                                                        ; DATA XREF: sub_0_13CA<sup>†</sup> o
; DATA XREF: sub_0_13CA+2F<sup>†</sup> o
                                                              unk 0 6106:
                                                              unk_0_61C7:
                                                                                                                         61FD ??
61FE ??
61FF ??
6200 ??
6201 ??
6202 ??
6203 ??
6203
                                                                                                                           .ds
                                                            .ds 1
mario_alive_flag:.ds 1
                                                                                                                                                                                                                                                                                                        ; DATA XREF: return_if_mario_not_alive†r ; 0000:0BE3†r ...
                                                                                                                        .ds 1
                                                             unk_0_6202:
                                                                                                                           ds
                                                                                                                                                                                                                                                                                                        ; DATA XREF: animate_kong_and_pauline+D6fr
; animate_kong_and_pauline+10Efr ...
                                                             mario_y_coord:
                                                                                                                       .ds
6203
6204 ??
6205 ??
6205
6206 ??
6207 ??
6207
                                                             unk_0_6204:
mario_x_coord:
                                                                                                                          .ds 1
                                                                                                                                                                                                                                                                                                       ; DATA XREF: sub_0_19DA+13 r; sub_0_1A33+22 r ...
                                                              unk_0_6206:
                                                                                                                         .ds 1
                                                                                                                                                                                                                                                                                                       ; DATA XREF: sub_0_1AC3+54\u00e10 o ; sub_0_1AC3+9D\u00e10 ...
                                                              mario_flipy_sprite_tile:.ds 1
6207
6208 ??
6209 ??
6209 620B ??
620B ??
620C ??
620D ??
620E ??
                                                              mario_flipx_colour:.ds 1
                                                                                                                                                                                                                                                                                                         ; DATA XREF: 0000:0FA5<sup>†</sup>o
                                                              unk_0_6209:
                                                                                                                        .ds 1
                                                                                                                                                                                                                                                                                                        ; init to 4 ; init to 8
                                                              mario_x_before_jump:.ds
                                                             mario_y_before_jump:.ds 1
                                                                                                                                                                                                                                                                                                             DATA XREF: sub_0_1AC3+E6\u00faw
sub_0_1AC3+1B6\u00fao ...
DATA XREF: sub_0_1AC3+1CE\u00far
                                                             unk_0_620E:
                                                            unk_0_620F:
                                                                                                                      .ds 1
620F ??
620F
6210 ??
6210 ??
6212 ??
                                                                                                                                                                                                                                                                                                                sub_0_1AC3+1EA↑r ...
                                                                                                                                                                                                                                                                                                             mario_???
DATA XREF: sub_0_1AC3+B0\rangle o
sub_0_1F46+F\rangle w ...
                                                             unk_0_6210:
                                                                                                                        .ds 1
6210
6211 ??
6212 ??
6213 ??
6214 ??
                                                              unk_0_6211:
                                                                                                                         .ds
                                                                                                                                       1
                                                             unk_0_6212:
unk_0_6213:
unk_0_6214:
                                                                                                                        .ds
                                                                                                                          .ds
                                                                                                                          .ds
```

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6215 ??
6216 ??
6217 ??
6218 ??
6219 ??
                                                                       mario_climbing: .ds
                                                                       mario_jumping:
unk_0_6217:
unk_0_6218:
unk_0_6219:
                                                                                                                                           .ds
                                                                                                                                           .ds
.ds
.ds
6219 ??
621A ??
621A 621B ??
621C ??
621C 621D ??
621E ??
                                                                                                                                                                                                                                                                                                                                                  ; DATA XREF: sub_0_1AC3+5D†o; sub_0_1AC3+2B3†r ...
                                                                      unk_0_621A:
                                                                                                                                          .ds
                                                                                                                                          .ds 1
                                                                                                                                                                                                                                                                                                                                                 ; DATA XREF: sub_0_1AC3+262\dagger o ; sub_0_1AC3+2BD\dagger r
                                                                     unk_0_621C:
                                                                                                                                         .ds 1
                                                                                                                                                                                                                                                                                                                                                  ; DATA XREF: sub_0_1AC3+7 r; sub_0_1AC3+92 o ...
                                                                      unk_0_621E:
                                                                     unk_0_621F:
unk_0_6220:
unk_0_6221:
unk_0_6222:
621F ??
6220 ??
6220 ??
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6224 ??
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6228 6229 ??
6229 6229 6229 ??
6220 ??
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                                                                     unk_0_6224:
unk_0_6225:
                                                                                                                                            .ds
                                                                                                                                                                                                                                                                                                                                                 ; DATA XREF: sub_0_30+14\(\frac{1}{9}\)
; 0000:01EA\(\frac{1}{9}\) ...
; DATA XREF: 0000:01D9\(\frac{1}{9}\)
; check_and_award_bonus+28\(\frac{1}{9}\) ...
; DATA XREF: 0000:01D6\(\frac{1}{9}\)
; difficulty_timer_tick+15\(\frac{1}{7}\) ...
                                                                     level_type:
                                                                     lives_left:
                                                                                                                                         .ds 1
                                                                      level:
                                                                                                                                          .ds 1
                                                                                                                                                                                                                                                                                                                                                   ; keeps incrementing
                                                                                                                                         .ds 2
                                                                        seg data:
                                                                                                                                                                                                                                                                                                                                                  ; DATA XREF: 0000:0A6E\u00e10; 0000:12F6\u00e1w ...
                                                                       awarded_bonus_life:.ds 1
                                                                                                                                                                                                                                                                                                                                                 ; DATA XREF: 0000:0C05†r; 0000:0C0E†w ...
622E ??
622E ??
6230 ??
6231 ??
6233 ??
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                                                                      unk_0_622E:
                                                                                                                                        .ds 1
                                                                      unk_0_622F:
                                                                                                                                           .ds
                                                                                                                                          627B
627C
627D
627E
                    ??
627F ??
6280 ??
                                                                                                                                            .ds
                                                                      unk_0_6280:
                                                                                                                                                                                                                                                                                                                                                  ; DATA XREF: 0000:0F641o
```

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6280
                                                                                                                                                                                                                                                                                           ; 0000:0F72†o ...
                                                                                                                    .ds 1 .ds 1 .ds 1 .ds 1
6281 ??
6282 ??
6283 ??
6284 ??
6285 ??
6286 ??
6288 ??
6288 ??
6288 ??
6282 ??
6280 ??
6282 ??
6282 ??
                                                                                                                    .ds
.ds
.ds
.ds
.ds
.ds
.ds
.ds
                                                          unk_0_6288:
                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_2207+E↑o
                                                                                                                    .ds
.ds
                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_1A33+53\u00f30
; sub_0_1E57+29\u00f3r
                                                          unk 0 6290:
                                                                                                                    .ds
6290
6291
6292
6293
6294
6295
6296
6297
6298
6299
629A
629B
629C
629D
629E
                unk_0_6291:
unk_0_6292:
                                                                                                                    .ds
                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_1A33+48 o
                                                                                                                     .ds
                                                                                                                    .ds
.ds
.ds
.ds
.ds
.ds
.ds
.ds
629F ??
62A0 ??
62A0
62A1 ??
                                                                                                                     .ds
                                                          unk_0_62A0:
                                                                                                                                                                                                                                                                                            ; DATA XREF: 0000:16BC↑w
                                                                                                                                                                                                                                                                                           ; 0000:16D2\forall ...
; DATA XREF: sub_0_2602+14\forall o
                                                          unk 0 62A1:
                                                                                                                    .ds 1
62A2 ??
62A3 ??
62A3 ??
62A5 ??
62A6 ??
62A6 ??
62A8 ??
62A8 ??
62AB ??
62AB ??
62AB ??
62AB ??
62AB ??
                                                                                                                     .ds
                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_2523+2E|r; sub_0_262F|o ...
                                                          unk_0_62A3:
                                                                                                                    .ds 1
                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_2679+7\dagger o ; DATA XREF: sub_0_2523+39\dagger r ; sub_0_2679+14\dagger o ; DATA XREF: sub_0_27DA\dagger o
                                                          unk_0_62A5:
unk_0_62A6:
                                                                                                                   .ds
                                                          unk 0 62A7:
                                                                                                                    .ds
                                                                                                                    .ds
                                                          unk_0_62A8:
                                                          unk_0_62AA:
                                                                                                                     .ds
62AA ??
62AB ??
62AC ??
62AD ??
62AE ??
62AF ??
62BO ??
                                                                                                                     dя
                                                          unk_0_62AC:
                                                                                                                    .ds
.ds
                                                                                                                     .ds
                                                          unk_0_62AF:
                                                                                                                                                                                                                                                                                                 DATA XREF: 0000:0AA61w
                                                                                                                                                                                                                                                                                                 DATA XREF: 0000:0AA6[w 0000:0AEB[r ... DATA XREF: 0000:063A]r 0000:0F8E[o ... level timer #1 DATA XREF: sub_0_2C03+9]r sub_0_2C8F+4B[o ...
                                                          unk_0_62B0:
                                                                                                                   .ds 1
62B0
62B0
62B1 ??
62B1
                                                           unk_0_62B1:
                                                                                                                   .ds 1
62B1
62B2 ??
62B3 ??
62B4 ??
62B4 62B5 ??
62B6 ??
62B7 ??
62B8 ??
62B9 ??
62BA ??
                                                                                                                                                                                                                                                                                           , sub_0_2c6f+4B|0 ...
; level timer #2
; level timer #3
; level timer #4
; DATA XREF: sub_0_2FCB+3\rangle o
; level timer #5
                                                          unk_0_62B2:
unk_0_62B3:
unk_0_62B4:
                                                                                                                    .ds
                                                                                                                    .ds 1 .ds 1 .ds 1
                                                                                                                    .ds
                                                                                                                     .ds
                                                           unk 0 62B8:
                                                                                                                     dя
                                                                                                                                                                                                                                                                                           ; DATA XREF: sub 0 3A2+91o
                                                          unk_0_62B9:
unk_0_62BA:
                                                                                                                    .ds
.ds
                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_3A2+2F\dagger\dagger o ; sub_0_3A2+3E\dagger w
 62BA
62BB ??
62BC ??
62BE ??
62BE ??
62BE ??
62BE ??
62BE ??
62CI ??
                                                                                                                    62E7 ??
62E8 ??
                                                                                                                     .ds
```

6347 ?? 6348 ?? 6348 ?? 6348 ?? 634C ?? 634C ?? 634E ?? 634E ?? 6351 ?? 6352 ?? 6353 ?? 6355 ?? 6356 ?? 6357 ?? 6358 ??

.ds

.ds .ds .ds .ds .ds .ds .ds .ds .ds

.ds

unk_0_6348:

unk 0 6350: unk_0_6351: unk_0_6352: unk_0_6353: unk_0_6354:

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6359 ??
635A ??
635B ??
635C ??
635F ??
635F ??
6361 ??
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6364 ??
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                                         unk_0_6380:
                                                                                 .ds
                                         unk_0_6381:
unk_0_6382:
                                                                                .ds
                                                                                                                                                                                                   ; DATA XREF: difficulty_timer_tick+7<sup>†</sup>o
                                                                                                                                                                                                   ; DATA XREF: 0000:02Dl\u00e7o
; DATA XREF: difficulty_timer_tick\u00e7o
; DATA XREF: 0000:0A76\u00e7r
; 0000:0ABA\u00e7o
                                         unk 0 6383:
                                                                                 .ds
                                         unk 0 6384:
                                                                                 .ds
6384 ??
6385 ??
6385 6386 ??
6387 ??
6388 ??
                                         intro_sequencer:.ds
                                         unk_0_6386:
                                                                               .ds 1
                                        unk_0_6387:
unk_0_6388:
                                                                                 dя
                                                                                                                                                                                                   ; DATA XREF: 0000:161F<sup>†</sup>r; 0000:1633<sup>†</sup>r ...
6388
6389 ??
638A ??
638B ??
                                         unk_0_6389:
                                                                                 .ds 1
                                                                                                                                                                                                   ; DATA XREF: 0000:07CB<sup>†</sup>r
; 0000:07D5<sup>†</sup>w ...
                                         title_flash_tmr_1:.ds 1
                                         title_flash_tmr_2:.ds 1
638C ??
638D ??
638D
638E ??
                                        bonus_timer:
unk_0_638D:
                                                                                .ds 1
                                                                                                                                                                                                   ; DATA XREF: 0000:0B58\dagger w; 0000:0B94\dagger r ...; DATA XREF: 0000:0AD4\dagger w
                                        unk_0_638E:
                                                                               .ds 1
                                                                                                                                                                                                   ; DATA XREF: UUUU.UADF1;;
; 0000:0B3B|r ...;
; DATA XREF: sub_0_2C03+4C|w
; sub_0_2C8F+8D|r ...;
; DATA XREF: animate_kong_and_pauline+2B|o;
; animate_kong_and_pauline+8B|r ...
638E
638F ??
638F
6390 ??
                                        unk_0_638F:
                                                                              .ds 1
                                        kong thrash tmr:.ds 1
6390
6390
6391 ??
6392 ??
6393 ??
6394 ??
6395 ??
6395
                                        kong_thrash_flag:.ds 1 unk_0_6392: .ds 1
                                         barrel_deployment:.ds 1
                                                                                                                                                                                                   ; DATA XREF: sub_0_2ED4+4A\r ; sub_0_2ED4+75\r o ; DATA XREF: sub_0_2ED4+7C\r o ; sub_0_2ED4+87\r w ...
                                                                               .ds 1
                                        unk_0_6394:
                                        unk_0_6395:
                                                                               .ds 1
6396 ??
6397 ??
6398 ??
                                        unk_0_6396:
                                                                                .ds 1
                                                                                 .ds
                                        mario_on_elevator:.ds 1
6399 ??
639A ??
639B ??
639B
                                                                              .ds 1
                                        unk 0 639A:
                                        unk_0_639B:
                                                                                                                                                                                                    ; DATA XREF: sub_0_2523 o 
; sub_0_2523+65 w
                                                                               .ds
639B
639C ??
639D ??
639E ??
639E
639F ??
63AO ??
                                                                                .ds 1
                                        unk_0_639D:
                                                                                                                                                                                                    ; DATA XREF: 0000:127f1r
                                                                                                                                                                                                       0000:1295 o ...
DATA XREF: 0000:129B w
                                        unk 0 639E:
                                                                               .ds 1
                                                                                                                                                                                                    ; 0000:12B2†o
                                                                                                                                                                                                   ; DATA XREF: sub_0_3A2+39\dagger w ; 0000:0768\dagger w ...
                                        unk_0_63A0:
                                                                               .ds 1
 63A0
63A0
63A1 ??
63A2 ??
63A3 ??
63A4 ??
63A5 ??
63A7 ??
63A7 ??
63A8 ??
63A9 ??
                                         unk_0_63A1:
unk_0_63A2:
                                                                                .ds
                                         unk_0_63A3:
unk 0 63A4:
                                                                                .ds
                                        unk_0_63A5:
unk_0_63A6:
unk_0_63A7:
                                                                                .ds
                                                                                                                                                                                                    ; DATA XREF: 0000:0BFA↑o
                                                                                .ds
                                                                                                                                                                                                    ; 0000:0C43†r ...
63A8 ??
63A9 ??
63AA ??
63AB ?? ??
63AD ?? ??
63BO ??
63BO ??
63B2 ??
63B3 ??
63B5 ??
63B6 ??
63B6 ??
63B8 ??
63B8 ??
                                        unk_0_63A8:
                                                                                .ds 1
                                                                                .ds
                                                                                 .ds
                                         segment_addr_1: .ds 2
segment_addr_2: .ds 2
start_tile_index: .ds 1
end_tile_index: .ds 1
                                         dy:
                                                                                 .ds
                                         segment_type:
tile_byte_1:
                                                                                 .ds
                                                                                 .ds 1
                                         current_tile_in_segment:.ds 1
.ds 1
                                        unk_0_63B7:
unk_0_63B8:
                                                                                 .ds
                                                                                .ds
                                                                                                                                                                                                    ; DATA XREF: 0000:06351r
 63B8
63B9
                                         unk_0_63B9:
                                                                                .ds
 63BA
            ??
                                                                                .ds
 63BB ??
63BC ??
63BD ??
                                                                                .ds
                                                                                .ds
 63BE ??
                                                                                 .ds
 63BF ??
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63C0 ??
63C1 ??
63C2 ??
63C3 ??
63C3 ??
63C6 ??
63C8 ??
63C8 ??
63C8 ??
63C9 ?
                                                                                                                                                                                    unk_0_63C0:
                                                                                                                                                                                                                                                                                                                                                               .ds
                                                                                                                                                                             .ds 1
unk_0_63C2: .ds 1
.ds 1
unk_0_63C4: .ds 1
                                                                                                                                                                                                                                                                                                                                                                    .ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; DATA XREF: next_attract_action+3<sup>†</sup>o
                                                                                                                                                                                                                                                                                                                                                             unk_0_63E0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; DATA XREF: sub_0_31B1+7↑o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; DATA XREF: 0000:10E9†o
; sub_0_286F+2A†o ...
                                                                                                                                                                                    unk_0_6400:
                                                                                                                                                                                                                                                                                                                                                               .ds
.ds
.ds
.ds
.ds
.ds
                                                                                                                                                                                    unk_0_6407:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: 0000:0FE5<sup>o</sup>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; 0000:1022†o ...
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; DATA XREF: 0000:1166 o

; DATA XREF: 0000:1151\u00f30

unk_0_64A0: unk_0_64A3:

.ds

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64A6 ??
64A7 ??
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64B1 ??
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                                                                                                                                                                                                                                                                                                                                                                  ; DATA XREF: 0000:115D10
                                                                                                                                                                                     unk_0_64A7:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; DATA XREF: init_spring_sprites+C\uparrowo; 0000:28F9\uparrowo ...
                                                                                                                                                                                     unk_0_6500:
                                                                                                                                                                                                                                                                                                                                                                  unk_0_6507:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; DATA XREF: init_spring_sprites+3<sup>o</sup>
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                                                                                                                                                          unk_0_6600:
                                                                                                                                                                                                                                                                                                              .ds 1
                                                                                                                                                                                                                                                                                                              unk_0_6603:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; DATA XREF: 0000:10BA\u00e10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; DATA XREF: 0000:10C6\cdot
                                                                                                                                                         unk_0_6607:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; DATA XREF: 0000:10AA o
                                                                                                                                                          unk_0_660D:
```

File: E:\Projects\pace\pace	dev.net\sw\re
6758 ??	a_ 1
6759 ??	.ds 1 .ds 1
675A ??	.ds 1
675B ??	.ds 1
675C ??	.ds 1
675D ?? 675E ??	.ds 1 .ds 1
675F ??	.ds 1
6760 ??	.ds 1
6761 ??	.ds 1
6762 ?? 6763 ??	.ds 1 .ds 1
6764 ??	.ds 1
6765 ??	.ds 1
6766 ??	.ds 1
6767 ??	.ds 1
6768 ?? 6769 ??	.ds 1 .ds 1
676A ??	.ds 1
676B ??	.ds 1
676C ??	.ds 1
676D ?? 676E ??	.ds 1 .ds 1
676F ??	.ds 1
6770 ??	.ds 1
6771 ??	.ds 1
6772 ??	.ds 1
6773 ?? 6774 ??	.ds 1 .ds 1
6775 ??	.ds 1
6776 ??	.ds 1
6777 ??	.ds 1
6778 ?? 6779 ??	.ds 1 .ds 1
677A ??	.ds 1
677B ??	.ds 1
677C ??	.ds 1
677D ?? 677E ??	.ds 1 .ds 1
677F ??	.ds 1
6780 ??	.ds 1
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6783 ?? 6784 ??	.ds 1 .ds 1
6785 ??	.ds 1
6786 ??	.ds 1
6787 ??	.ds 1
6788 ?? 6789 ??	.ds 1 .ds 1
678A ??	.ds 1
678B ??	.ds 1
678C ??	.ds 1
678D ??	.ds 1
678E ?? 678F ??	.ds 1 .ds 1
6790 ??	.ds 1
6791 ??	.ds 1
6792 ??	.ds 1
6793 ?? 6794 ??	.ds 1 .ds 1
6795 ??	.ds 1
6796 ??	.ds 1
6797 ??	.ds 1
6798 ?? 6799 ??	.ds 1
6799 ?? 679A ??	.ds 1 .ds 1
679B ??	.ds 1
679C ??	.ds 1
679D ?? 679E ??	.ds
679E ?? 679F ??	.ds 1 .ds 1
67A0 ??	.ds 1
67A1 ??	.ds 1
67A2 ??	.ds
67A3 ?? 67A4 ??	.ds 1 .ds 1
67A5 ??	.ds 1
67A6 ??	.ds 1
67A7 ??	.ds 1
67A8 ?? 67A9 ??	.ds 1 .ds 1
67AA ??	.ds 1
67AB ??	.ds 1
67AC ??	.ds 1
67AD ?? 67AE ??	.ds 1 .ds 1
67AF ??	.ds 1
67B0 ??	.ds 1
67B1 ??	.ds 1
67B2 ?? 67B3 ??	.ds 1
67B3 ?? 67B4 ??	.ds 1 .ds 1
67B5 ??	.ds 1
67B6 ??	.ds 1
67B7 ??	.ds 1
67B8 ?? 67B9 ??	.ds 1 .ds 1
67BA ??	.ds 1
67BB ??	.ds 1
67BC ??	.ds 1
67BD ??	.ds 1
67BE ?? 67BF ??	.ds 1 .ds 1
67C0 ??	.ds 1
67C1 ??	.ds 1
67C2 ??	.ds 1
67C3 ?? 67C4 ??	.ds 1 .ds 1
67C4 ?? 67C5 ??	.ds 1 .ds 1
67C6 ??	.ds 1
67C7 ??	.ds 1
67C8 ??	.ds 1
67C9 ?? 67CA ??	.ds 1 .ds 1
67CB ??	.ds 1

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. ds 1
. 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DATA XREF: 0000:0139<sup>†</sup>o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Clear_tiles_and_sprites+11\(\frac{1}{2}\) ...

0-1 = pauline
2-11 = kong
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .
19 = mario
```

File: E:\Projects\pace\pacedev.ne	et\sw\re
6AA2 ??	.ds 1
6AA3 ??	.ds 1
6AA4 ?? 6AA5 ??	.ds 1
6AA6 ??	.ds 1
6AA7 ??	.ds 1
6AA8 ?? 6AA9 ??	.ds 1
6AAA ??	.ds 1
6AAB ??	.ds 1
6AAC ?? 6AAD ??	.ds 1
6AAE ??	.ds 1
6AAF ?? 6ABO ??	.ds 1
6ABO ?? 6AB1 ??	.ds 1
6AB2 ??	.ds 1
6AB3 ?? 6AB4 ??	.ds 1
6AB5 ??	.ds 1
6AB6 ?? 6AB7 ??	.ds 1
6AB7 ?? 6AB8 ??	.ds 1
6AB9 ??	.ds 1
6ABA ?? 6ABB ??	.ds 1
6ABC ??	.ds 1
6ABD ??	.ds 1
6ABE ?? 6ABF ??	.ds 1
6ACO ??	.ds 1
6AC1 ?? 6AC2 ??	.ds 1
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6AC7 ??	.ds 1
6AC8 ?? 6AC9 ??	.ds 1
6AC9 ?? 6ACA ??	.ds 1
6ACB ??	.ds 1
6ACC ?? 6ACD ??	.ds 1
6ACE ??	.ds 1
6ACF ??	.ds 1
6AD0 ?? 6AD1 ??	.ds 1
6AD2 ??	.ds 1
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6AD9 ??	.ds 1
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6AE5 ?? 6AE6 ??	.ds 1
6AE7 ??	.ds 1
6AE8 ?? 6AE9 ??	.ds 1
6AEA ??	.ds 1
6AEB ??	.ds 1
6AEC ?? 6AED ??	.ds 1
6AEE ??	.ds 1
6AEF ?? 6AFO ??	.ds 1
6AF0 ?? 6AF1 ??	.ds 1
6AF2 ??	.ds 1
6AF3 ?? 6AF4 ??	.ds 1
6AF5 ??	.ds 1
6AF6 ?? 6AF7 ??	.ds 1
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6AF9 ??	.ds 1
6AFA ?? 6AFB ??	.ds 1
6AFC ??	.ds 1
6AFD ?? 6AFE ??	.ds 1
6AFF ??	.ds 1
6B00 ??	.ds 1
6B01 ?? 6B02 ??	.ds 1
6B03 ??	.ds 1
6B04 ?? 6B05 ??	.ds 1
6B06 ??	.ds 1
6B07 ??	.ds 1
6B08 ?? 6B09 ??	.ds 1
6B0A ??	.ds 1
6B0B ??	.ds 1
6B0C ?? 6B0D ??	.ds 1
6B0E ??	.ds 1
6B0F ?? 6B10 ??	.ds 1
6B11 ??	.ds 1
6B12 ??	.ds 1
6B13 ?? 6B14 ??	.ds 1
6B15 ??	.ds 1

File: E:\Projects\pace\pa	acedev.net\sw\re
6B8A ??	.ds 1
6B8B ??	.ds 1
6B8C ??	.ds 1
6B8D ?? 6B8E ??	.ds 1 .ds 1
6B8F ??	.ds 1
6B90 ??	.ds 1
6B91 ?? 6B92 ??	.ds 1 .ds 1
6B93 ??	.ds 1
6B94 ??	.ds 1
6B95 ??	.ds 1
6B96 ?? 6B97 ??	.ds 1 .ds 1
6B98 ??	.ds 1
6B99 ??	.ds 1
6B9A ?? 6B9B ??	.ds 1 .ds 1
6B9C ??	.ds 1
6B9D ??	.ds 1
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6B9F ?? 6BA0 ??	.ds 1
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6BA9 ??	.ds 1
6BAA ??	.ds 1
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6BAE ??	.ds 1
6BAF ??	.ds 1 .ds 1
6BB0 ?? 6BB1 ??	.ds 1
6BB2 ??	.ds 1
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6BB8 ?? 6BB9 ??	.ds 1 .ds 1
6BBA ??	.ds 1
6BBB ??	.ds 1
6BBC ?? 6BBD ??	.ds 1 .ds 1
6BBE ??	.ds 1
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6BC0 ?? 6BC1 ??	.ds 1 .ds 1
6BC2 ??	.ds 1
6BC3 ??	.ds 1
6BC4 ??	.ds 1
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6BC7 ??	.ds 1
6BC8 ??	.ds 1
6BC9 ?? 6BCA ??	.ds 1 .ds 1
6BCB ??	.ds 1
6BCC ??	.ds 1
6BCD ?? 6BCE ??	.ds 1
6BCF ??	.ds 1
6BD0 ??	.ds 1
6BD1 ?? 6BD2 ??	.ds 1 .ds 1
6BD3 ??	.ds 1
6BD4 ??	.ds 1
6BD5 ?? 6BD6 ??	.ds 1 .ds 1
6BD7 ??	.ds 1
6BD8 ??	.ds 1
6BD9 ?? 6BDA ??	.ds 1 .ds 1
6BDA ?? 6BDB ??	.ds 1
6BDC ??	.ds 1
6BDD ??	.ds 1
6BDE ?? 6BDF ??	.ds 1 .ds 1
6BE0 ??	.ds 1
6BE1 ??	.ds 1
6BE2 ?? 6BE3 ??	.ds 1 .ds 1
6BE4 ??	.ds 1
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6BE6 ?? 6BE7 ??	.ds 1 .ds 1
6BE8 ??	.ds 1
6BE9 ??	.ds 1
6BEA ??	.ds 1 .ds 1
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6BED ??	.ds 1
6BEE ??	.ds 1
6BEF ?? 6BFO ??	.ds 1 .ds 1
6BF1 ??	.ds 1
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6BF5 ??	.ds 1
6BF6 ??	.ds 1
6BF7 ??	.ds 1
6BF8 ?? 6BF9 ??	.ds 1 .ds 1
6BFA ??	.ds 1
6BFB ??	.ds 1
6BFC ?? 6BFD ??	.ds 1 .ds 1
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6BFE ??
6BFF ??
                                        .us 1
.ds 1
; end of 'RAM'
  6BFF
6BFF
7000
7000
7000
7000
7000
                                         ; Segment type: Regular
; segment 'SPRAM'
.org 0x7000
+SPRAM_start: .ds 0x400
                                                                                                                                                                                              ; DATA XREF: 0000:013D10;
; 0000:027610;
; 2 banks of 128 sprites;
- only 16 displayed per scanline;
@0 7:0=y;
@1 7=flipy,6:0=code;
@2 7=flipx,3:0=colour;
@3 7:0=x
  7000 77000 ?? ?? ?? ??+SPRAM_start:
7000 ?? ?? ?? ?? ??+
7000 ?? ?? ?? ?? ??+; end of 'SPRAM'
7000 ?? ?? ?? ?? ??+
  7000 ?? ?? ?? ??+
7000 ?? ?? ?? ??+
7000 ?? ?? ?? ??+
7000 ?? ?? ?? ??+
 7000 ?? ?? ?? ??+
7400 ;
7400 ; Segment type:
7400 ; segment 'VRAM'
7400 ; ?? ?? ??+VRAM_start:
7400 ?? ?? ?? ??+
7400 ?? ?? ?? ??+
7400 ?? ?? ?? ??+
7400 ?? ?? ?? ??+
7800 ;
7800 ; Segment type:
                                        ; Segment type: Regular
; segment 'VRAM'
                                                                       .org 0x7400
.ds 0x400
                                                                                                                                                                                               ; DATA XREF: 0000:028510
                                                                                                                                                                                               ; clear_tiles_and_sprites o ...
; DATA XREF: 0000:00721r
                                                                                                                                                                                               ; update_sounds+3\o ...
                                                                                                                                                                                              ; DATA XREF: 0000:01E4\dagger w ; 0000:02AF\dagger w ...
                                                                                                                                                                                              ; DATA XREF: 0000:02A8†w; 0000:0779†o ...
 7D86 ?? :: F- ...
7D88 ?? ?? ?? ??+
7D88 ?? ?? ?? ??+; end of 'IO'
7D88 ?? ?? ?? ??+; end of file
                                                                               .ds 0x78
```