```
This file is generated by The Interactive Disassembler (IDA)
Licensed to: Unknown User ;-)
Copyright (c) 1999 by DataRescue sa/nv, <ida@datarescue.com>
                          ; 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
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 11/12/2013, 12:23:46 AM
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
```

; store

; reset input?

; CODE XREF: 0000:008414

; IRQ resume address

; general purpose timer tick
; randomise

ld ld ld

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

h, b

a, b

rand

h1

6, a NZ, RESET

(controller\_in), hl

hl, #gen\_purpose\_timer
(hl)

check\_coin\_inserted update\_sounds

a, (nmi\_sequencer)

hl, #nmi\_exit

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
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 C0

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
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

0102 2D

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<sup>†</sup> 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
                                                                                                                                                ; 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
012F 1C
                                                           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

```
; DATA XREF: 0000:00CA o
             clear_visible_area_and_sprites
hl, #inital_scores_and_high_score
de, #p1_score
bc, #9
call
ld
                                                                                    ; copy in ROM
; RAM location
; 9 bytes to copy
; copy scores to RAM
ld
ld
ldir
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
```

01D1 01D3 01D6 01D9

3E 01 32 07 60 32 29 62 32 28 62

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 C9 0207 0207

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

0363

0364

0366

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

0368

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
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<sup>†</sup>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)
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
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
                           display_help_rivets_level:
                                                                                                                                    ; CODE XREF: animate_kong_and_pauline+97<sup>†</sup>j
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 ; 'C'
                                                      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+ABfp
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 11/12/2013, 12:23:46 AM
                        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
                                                ret
                                                ld
                                                            de, #p2_score
                                                ret
                         ; End of function current_player_score_DE
056A
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

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
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_12P_get_selection+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
                                                                                                                               ; DE = screen address to print
; HL = message text
; screen column address inc value
; DE = text, HL = screen address
05FA 56
05FB 23
05FC 01 E0 FF
05FF EB
                                                   ld
inc
ld
                                                                d, (hl)
                                                                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
                                                                NC
```

SUBROUTINE

print\_message\_A

display\_credits:

1d

call

0616 0616 0616 0616 3E 05

0618 CD E9 05

CODE XREF: display\_start\_12P\_get\_selection+1B $\mid$ p 0000:141E $\mid$ p ...

"credit"

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
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
                                                          rrca
and
add
06A0 OF
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
```

; CODE XREF: 0000:06AA11

CODE XREF: 0000:01DC<sup>†</sup>p check\_and\_award\_bonus+2C<sup>†</sup>j

; CODE XREF: display\_lives\_and\_level+D|j

DATA XREF: ... store number of lives

return if attract mode

; column delta

<space>

; next column

06B1 06B1 27 06B2 32 8C 63 06B5 C3 6A 06

06B8 06B9 CF 06BA 06 06 06BC 11 E0 FF 06BF 21 83 77 06C2 06C2

06C2 36 10

06C4 19

06B8 06B8 06B8

06B8

06B8

06B8 06B8 06B8 4F

loc\_0\_6B1:

loc\_0\_6C2:

daa

ld jр

ld

rst ld

ld

ld

1d

add

display\_lives\_and\_level:

(bonus\_timer), a

loc 0 66A

SUBROUTINE

c, a 8 b, #6

de, #0xFFE0

(hl), #0x10 hl, de

 $hl, \#VRAM\_start+0x383$ 

```
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
    0704 AB 09
0706 D6 09
0708 FE 09
                                                                     .dw init_ingame_data_p1
.dw loc_0_9D6
                                                                     .dw loc_0_9D6
.dw init_ingame_data_p2
.dw display_p2_screen?
.dw display_p1_screen?
.dw wait_cls___
.dw do_intro_sequence
    0708
070A
070C
070E
0710
0712
0714
0716
             1B 0A
37 0A
63 0A
76 0A
             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
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, #0
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
                                                                                                                              CODE XREF: clear_visible_area_and_sprites+E|j display space character next line . . .
0880
0880 77
0881 23
                          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
                                                                                                                           ; DATA XREF: 0000:00CE1o
08B2
                          vector_on_credit_sequencer:
08B2 3A 0A 60
08B5 EF
                                                              a, (main_sequencer)
0x28
                                                                                                                            ; go!
08B5
                                                  .dw loc_0_8BA
.dw display_start_12P_init_???
08B6 BA 08
                                                                                                                            ; jump table
08B8 F8 08
08BA
08BA
08BA
                          loc_0_8BA:
                                                                                                                            ; DATA XREF: 0000:08B61o
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
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
08C4 CD 9F 30
08C7 21 0A 60
08CA 34
08CB CD 65 09
08CE AF
08CF 21 86 7D
08D2 77
08D3 2C
08D4 77
                                                    ld
inc
                                                                 hl, #main_sequencer (hl)
                                                    call
                                                                 queue_hs_table_for_display
                                                    xor
                                                                a
hl, #palette_bank
(hl), a
                                                    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
                                                                 b, #4
e, #return_if_attract_mode+1
                                                                                                                                ; "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_12P_get_selection+9<sup>†</sup>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_12P_get_selection+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_12P_get_selection
08F8
08F8
08F8
                           display_start_12P_init_???
                                                                                                                                ; DATA XREF: 0000:08B81o
                                                                 display_start_12P_get_selection
08F8 CD D5 08
08F8 CD D5 08
08FB FE 04
08FD CA 06 09
0900 FE 08
0902 CA 19 09
0905 C9
0906
0906
0906
0906 CD 77 09
0906 CD 77 09
0906 CD 06 08
                                                    call
                                                                 #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_???
                                                    ld
                                                                 hl, #p2_level_data
b, #8
090C 06
090E AF
090F
090F
                                                    1d
                                                                                                                                ; CODE XREF: 0000:0911 j
loc_0_90F:
                                                    ld
                                                                 (hl), a
                                                    djnz
                                                                 loc_0_90F
                                                    ld
                                                                 hl, #0
loc_0_938
                                                    jp
                                                                                                                                ; CODE XREF: 0000:09021j
                           start_2_selected:
                                                    call
call
ld
                                                                 dec_credits_and_???
                                                                 dec_credits_and_???
dec_credits_and_???
de, #p2_level_data
a, (lives_per_game)
                                                                 a, (live (de), a
                                                    ld
                                                    ld
inc
ld
                                                                 e
hl, #0x95E
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
                                                                 bc, #7
                                                    ldir
ld
call
                                                                 de, #0x101
                                                                                                                                ; zero_score_or_high_score
                                                                 queue fg vector fn
                                                    ld
                                                                 hl, #0x100
                                                                                                                                ; players=2, current_player=1
                                                                                                                                 ; CODE XREF: 0000:0916<sup>†</sup>j
                           loc_0_938:
                                                                 (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
0954 AF
0955 32 0A 60
0958 3E 03
095A 32 05 60
095D C9
                                                    xor
                                                    1d
                                                                 (main_sequencer), a
                                                    ld
ld
                                                                 a, #3
(nmi_sequencer), a
                                                    ret
095D
095D
095E 01
                                                                                                                                 ; DATA XREF: 0000:0946†o
; Start of game level init data
                           game_init_data: .db 1
```

CODE XREF: 0000:078B1p

; next msg
; loop through messages

; 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

0000:08CB1p

.dw level\_seq\_1 .db 1, 0, 0, 0

queue\_hs\_table\_for\_display:

loc\_0\_970:

1d

ld

call ld

call

djnz

SUBROUTINE

de. #0x400

loc\_0\_970

queue\_fg\_vector\_fn
de, #0x314
b, #6

queue\_fg\_vector\_fn

095F 65 3A 0961 01 00 00 00 0965 0965

0965 0965 0965 0965 11 00 04

0968 CD 9F 30 096B 11 14 03 096E 06 06

0970 0970 CD 9F 30

0973 1C 0974 10 FA

0965

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
0976 C9
                               ; End of function queue_hs_table_for_display
0976
0977
0977
0977
0977
0977
0977 21 01 60
0976
                                                SUBROUTINE
                                                                                                                                                       ; CODE XREF: 0000:0906†p; 0000:0919†p ...
                                dec_credits_and_???:
                                                              ld
                                                                            hl, #no_of_credits
0977
097A 3E 99
097C 86
097D 27
097E 77
097F 11 00 04
0982 CD 9F 30
0985 C9
                                                             ld
add
                                                                            a, #0x99;
a, (hl)
                                                                                                                                                       ; decrement credits
                                                              daa
                                                                            (hl), a
de, #0x400
queue_fg_vector_fn
                                                              ld
                                                                                                                                                       ; display_credits_if_attract_mode
                                                              call
0985 C9
0985
0986
0986
0986 CD 52 08
0988 D1 C0 01
0987 3E 01
0991 12
0992 21 0A 60
0995 3A 0E 60
0998 A7
0999 C2 9F 09
0996 C9
0997 G6 01
0997 C9
0997 O997 O997 O997
                                                             ret
                                ; End of function dec_credits_and_???
                                ; DATA XREF: 0000:0702 o
                                                                            clear_tiles_and_sprites
                                                                            clear_tiles_and_sprit
stop_sound
de, #flipscreen
a, #1
(de), a
hl, #main_sequencer
a, (current_player_E)
a
NZ, loc_0_99F
(hl), #1
                                                              call
                                                              ld
                                                             ld
ld
                                                                                                                                                       ; default flipscreen
                                                              ld
                                                              ld
                                                                                                                                                       ; player 2?
; yes, skip
; ingame sequencer = 1
                                                              jp
ld
                                                              ret
                                                                                                                                                       ; CODE XREF: 0000:09991j
                                loc 0 99F:
099F 099F 3A 26 60 09A2 3D 09A3 CA A8 09 09A6 AF 09A7 12 09A8 09A8 09A8 36 03
                                                             ld
dec
jp
                                                                                                                                                          get cabinet type
upright?
yes, skip
disable flipscreen
                                                                            a, (upright)
                                                                            Z, loc_0_9A8
                                                              xor
                                                              1d
                                                                             (de), a
                                                                                                                                                       ; to hardware
                                                                                                                                                       ; CODE XREF: 0000:09A3<sup>†</sup>j; ingame sequencer = 3
                               loc 0 9A8:
09A8 36 03
09AA C9
09AB
                                                              ld
                                                                            (hl), #3
09AB

09AB

09AB 21 40 60

09AE 11 28 62

09B1 01 08 00

09B4 ED B0

09B6 2A 2A 62

09B9 3Z 27 62

09B0 3A 0F 60

09C0 A7

09C1 21 09 60

09C4 11 0A 60

09C7 CA DO 09

09CA 36 78

09CC EB

09CD 36 02

09CF C9

09D0

09D0
09AB
                               : DATA XREF: 0000:070410
                                                                            hl, #p1_level_data
de, #lives_left
                                                                                                                                                       ; player_current_data
; 8 bytes to copy
                                                                            bc, #8
                                                              ld
                                                              ldir
ld
                                                                            hl, (seq_data)
a, (hl)
(level_type), a
a, (two_players)
                                                                                                                                                       ; ptr current sequence table
; get level type
; store as current
                                                             ld
ld
                                                              and
ld
                                                                                                                                                       ; 1 player?
                                                                            hl, #eight_bit_countdown
                                                                            ni, #eight_bit_cound
de, #main_sequencer
Z, loc_0_9D0
(hl), #0x78; 'x'
de, hl
(hl), #2
                                                              ld
                                                                                                                                                       ; yes, skip
; set 8-bit countdown
                                                              ex
ld
                                                                                                                                                       ; next sequence (2)
09D0
09D0
09D0 36 01
09D2 EB
09D3 36 05
09D5 C9
09D6
09D6
                                                                                                                                                       ; CODE XREF: 0000:09C7†j
                               loc_0_9D0:
                                                                            (hl), #1
de, hl
(hl), #5
                                                                                                                                                       ; set 8-bit countdown
                                                              ld
                                                              ex
                                                              ld
                                                                                                                                                       ; next sequence (5)
09D6
09D6 AF
09D7 32 86 7D
09DA 32 87 7D
09DD 11 02 03
09E0 CD 97 30
09E3 11 01 02
09E6 CD 9F 30
09E9 3E 05
09EB 32 0A 60
09EE
                                                                                                                                                       ; DATA XREF: 0000:0706 o
                               loc_0_9D6:
                                                             xor
ld
ld
                                                                            a (palette_bank), a (palette_bank+1), a de, #0x302 queue_fg_vector_fn de #0x201
                                                                                                                                                       ; palette bank 0
; display_message_02
                                                             ld
call
ld
                                                                                                                                                       ; display_score_or_high_score
                                                                             de, #0x201
                                                                            queue_fg_vector_fn
                                                              call
                                                              1d
                                                                             (main_sequencer), a
09EE
09EE
09EE
09EE
09EE
09EE 3E 02
                                                              SUBROUTINE
                                                                                                                                                       ; CODE XREF: 0000:07A0↑p; 0000:0A2E├p
                               display_2UP:
09EE 3E 02
09EE 09F0 32 E0 74
09F3 3E 25
09F5 32 C0 74
09F8 3E 20
09FA 32 A0 74
09FD C9
                                                             ld
ld
ld
                                                                                                                                                           12
                                                                             (VRAM_start+0xE0), a
                                                                                                                                                       ; 'U'
                                                                            (VRAM_start+0xC0), a
                                                              1d
                                                              ld
ld
                                                                                                                                                       ; 'P'
                                                                            (VRAM_start+0xA0), a
                                                             ret
09FD
09FD
09FE
                                ; End of function display_2UP
09FE 09FE 09FE 21 48 60 0A01 11 28 62 0A04 01 08 00 0A07 ED B0 0A09 2A 2A 62 0A10 3E 78 0A12 3Z 09 60 0A15 3E 04 0A1A C9 0A1B 0A1B 0A1B
09FE
                               ; DATA XREF: 0000:0708 o
                                                                            hl, #p2_level_data
                                                                                                                                                       ; player_current_data
; 8 bytes to copy
                                                                            de, #lives_left
                                                              ld
                                                                            bc, #8
                                                              ldir
ld
                                                                            hl, (seq_data)
                                                                                                                                                       ; ptr current seq table
                                                                            a, (hl)
(level_type), a
a, #0x78; 'x'
(eight_bit_countdown), a
                                                              ld
ld
                                                                                                                                                       ; get level type
; store as current
                                                              ld
ld
                                                                                                                                                       ; init 8-bit countdown
```

ld

ld

display\_p2\_screen?:

0A1B

(main\_sequencer), a

; next sequence (4)

; DATA XREF: 0000:070A o

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
 OA1B AF
 0A1C 32 86 7D
0A1F 32 87 7D
0A22 11 03 03
0A25 CD 9F 30
                                                                                                                              (palette_bank), a
(palette_bank+1), a
de, #0x303
queue_fg_vector_fn
                                                                                                      ld
                                                                                                     ld
ld
call
                                                                                                                                                                                                                                                       ; palette bank 0
; display_message_03
UA25 CD 9F 30

0A28 11 01 02

0A2B CD 9F 30

0A2E CD EE 09

0A31 3E 05

0A33 32 0A 60

0A36 C9

0A37

0A37
                                                                                                                                                                                                                                                      ; display_score_or_high_score
                                                                                                      1d
                                                                                                                              de, #0x201
                                                                                                      call
call
                                                                                                                              queue_fg_vector_fn
display_2UP
                                                                                                                              a, #5
(main_sequencer), a
                                                                                                      ld
; DATA XREF: 0000:070C1o
                                                    display_pl_screen?:
                                                                                                                             de, #0x304
queue_fg_vector_fn
de, #0x202
                                                                                                                                                                                                                                                        ; display_message_04
                                                                                                      call
                                                                                                      ld
                                                                                                                                                                                                                                                        ; display score or high score
                                                                                                     call
ld
call
                                                                                                                              queue_fg_vector_fn
de, #0x200
queue_fg_vector_fn
                                                                                                                                                                                                                                                        ; display_score_or_high_score
                                                                                                      ld
                                                                                                                              de. #0x600
                                                                                                                                                                                                                                                        ; display_lives_and_level
                                                                                                                              queue_fg_vector_fn
hl, #main_sequencer
(hl)
                                                                                                      call
ld
                                                                                                      inc
                                                                                                      SUBROUTINE
                                                                                                                                                                                                                                                        ; CODE XREF: 0000:01F1 p
                                                    display_1UP:
                                                                                                                                                                                                                                                        ; 0000:07981p
; '1'
                                                                                                     ld
ld
                                                                                                                              a, #1
(VRAM_start+0x340), a
 0A58 3E 25
0A5A 32 20 77
0A5D 3E 20
0A5F 32 00 77
                                                                                                     ld
ld
ld
                                                                                                                              a, #0x25; '%'
(VRAM_start+0x320), a
                                                                                                                                                                                                                                                        7 '11'
                                                                                                                              (VRAM start+0x300), a
                                                                                                      ld
 0A62 C9
0A62
0A62
                                                     ret
; End of function display_1UP
0A62

0A63

0A63

0A63

0A63

0A63

0A64

0A67

0A64

0A67

0A62

0A60

0A71

0A71

0A72

0A73

0A73

0A73

0A73

0A73

0A74

0A75

0A76

                                                     wait_cls___:
                                                                                                                                                                                                                                                        ; DATA XREF: 0000:070E<sup>†</sup>o; wait for 8-bit countdown
                                                                                                      rst
                                                                                                                             clear_visible_area_and_sprites
hl, #eight_bit_countdown
(hl), #1
                                                                                                      call
                                                                                                      ld
ld
                                                                                                      inc
                                                                                                                                                                                                                                                        ; game_sequencer
; inc
                                                                                                                              (h1)
                                                                                                                             de, #unk_0_622C
a, (de)
                                                                                                      ld
ld
                                                                                                                                                                                                                                                        ; already seen intro?
                                                                                                      and
                                                                                                     ret
inc
ret
                                                                                                                                                                                                                                                        ; no, return
; skip intro sequence
                                                                                                                                                                                                                                                        ; DATA XREF: 0000:0710 o
                                                     do_intro_sequence:
                                                                                                                              a, (intro_sequencer)
0A76 3A 85

0A79 EF

0A79 8A 0A

0A7C BF 0A

0A7E E8 0A

0A80 69 30

0A82 06 08

0A84 69 30

0A86 68 0B

0A88 B3 0B

0A8A
                                                                                                      ld
                                                                                                                                                                                                                                                        ; go!
                                                                                                      .dw draw_climb_screen
                                                                                                                                                                                                                                                        ; Jump table
                                                                                                      .dw loc_O_ABF
.dw loc_O_AE8
.dw loc_O_3069
.dw draw_lst_girder_dformation
                                                                                                       .dw loc_0_3069
                                                                                                        .dw draw_rest_of_deformations
                                                                                                       .dw growl
 0A8A
0A8A

0A8A AF

0A8B 32 86 7D

0A8E 3C

0A8F 32 87 7D

0A92 11 0D 38

0A95 CD A7 0D
                                                    draw_climb_screen:
                                                                                                                                                                                                                                                       ; DATA XREF: 0000:0A7A10
                                                                                                    xor
ld
                                                                                                                              (palette_bank), a
                                                                                                      inc
                                                                                                      ld
ld
                                                                                                                             (palette_bank+1), a
de, #draw_data_climb
draw_level_background
                                                                                                                                                                                                                                                        ; palette bank 2
                                                                                                                                                                                                                                                       ; get address of ???
; <space>
                                                                                                      call
0A95 CD A7 0D
0A98 3E 10
0A9A 32 A3 76
0A9D 32 63 76
0AA0 3E D4
0AA0 3E D4
0AA0 3E D4
0AA0 3E D4
0AA0 3E AF 62
0AA6 3E AF 62
0AB6 3E AF 62
0AB6 3E AF 62
0AB7 3E 09 60
0ABA 21 85 63
0ABD 34
0ABB C9
                                                                                                     ld
ld
ld
                                                                                                                              a, #0x10
(VRAM_start+0x2A3), a
(VRAM_start+0x263), a
a, #0xD4 ; 'È'
                                                                                                                                                                                                                                                      ; half ladder, half girder
                                                                                                      ld
                                                                                                     ld
xor
ld
                                                                                                                              (VRAM_start+0x1AA), a
                                                                                                                               (unk_0_62AF), a
                                                                                                                             (unk_U_b2AH'), a
hl, #dk_intro_jump_up_data
(unk_U_63c2), hl
hl, #dk_intro_jump_across_data
(unk_U_63c4), hl
a, #0x40; '@'
                                                                                                      ld
                                                                                                      ld
ld
                                                                                                      ld
ld
                                                                                                                             (a., #0x40 ; '@'
a, #0x40 ; '@'
(eight_bit_countdown), a
hl, #intro_sequencer
(hl)
                                                                                                      ld
ld
                                                                                                      inc
 OABE C9
OABF
OABF
                                                                                                      ret
                                                                                                                                                                                                                                                        ; DATA XREF: 0000:0A7C\u00f30
                                                    loc 0 ABF:
0x18
hl, #dk_climbing_spr
copy_sprites_2_11_data
hl, #soft_sprite_ram+8
c, #48
0x38
                                                                                                     rst
ld
call
ld
                                                                                                                                                                                                                                                        ; wait for 8-bit countdown
                                                                                                                                                                                                                                                       ; sprite #2, y coord
                                                                                                     ld
rst
ld
                                                                                                                                                                                                                                                       ; add 48 to y coord for 10 sprites ; sprite #2, x coord
                                                                                                                             hl, #soft_sprite_ram+0xB
                                                                                                                              c, #153
0x38
a, #0x1F
                                                                                                      ld
                                                                                                      rst
ld
                                                                                                                                                                                                                                                        ; add 153 to \boldsymbol{x} coord for 10 sprites
                                                                                                                              (unk_0_638E), a
                                                                                                      ld
                                                                                                      xor
```

(soft\_sprite\_ram+0xC), a
hl, #unk\_0\_608A
(hl), #1

(h1), #3 h1, #intro\_sequencer (h1)

; sprite #3, y coord

ld ld

ld inc

ld ld

OAD7 AF

OAD8 32 OC 69

OADB 21 8A 60

OADE 36 O1

OAE0 23

OAE1 36 O3

OAE3 21 85 63

0AE6 34 0AE7 C9

```
0AE8
0AE8
OAE8
OAE8
COAE8
CD 6F 30
OAE8 3A AF 62
OAEE E6 0F
OAF0 CC 4A 30
OAF3 3A 0B 69
OAF6 FE 5D
                                 loc_0_AE8:
                                                                                                                                                                   ; DATA XREF: 0000:0A7E o
                                                                   call
ld
and
                                                                                   sub_0_306F
a, (unk_0_62AF)
#0xF
                                                                                   z, sub_0_304A
a, (soft_sprite_ram+0xB)
#0x5D; ']'
                                                                   call
                                                                   ld
                                                                                                                                                                   ; sprite #2, x coord
                                                                   ср
OAF6 FE 5D
OAF8 DO
OAF9 3E 20
OAFB 32 09 60
OAFE 21 85 63
OB01 34
OB02 22 CO 63
OB05 C9
OB06
                                                                   ret
ld
ld
                                                                                   NC
                                                                                   a, #0x20 ; ' '
(eight_bit_countdown), a
                                                                   ld
                                                                                   hl, #0x6385
(hl)
                                                                   ld
                                                                                   (unk_0_63C0), hl
                                                                   ret
0B06
0B06
0B06 3A 1A 60
0B09 0F
                                   draw_1st_girder_dformation:
                                                                                                                                                                    ; DATA XREF: 0000:0A8210
                                                                                  a, (gen_purpose_timer)
                                                                   ld
                                                                   rrca
0B0A D8
0B0B 2A C2 63
0B0E 7E
                                                                                   hl, (unk_0_63C2)
a, (hl)
#0x7F; ''
                                                                   ld
OBOF FE 7F
                                                                   cp
jp
inc
                                                                                   Z, loc_0_B1E
0B0F FE 7F
0B11 CA 1E 0B
0B14 23
0B15 22 C2 63
0B18 4F
0B19 21 0B 69
0B1C FF
0B1D C9
                                                                                   (unk_0_63C2), hl
                                                                   ld
                                                                                  c, a
hl, #0x690B
0x38
                                                                   14
                                                                   ld
OBID C9
OBIE
OBIE
OBIE
OBIE 21 5C 38
OB21 CD 4E 00
OB24 11 00 69
OB27 01 08 00
                                  loc_0_B1E:
                                                                                                                                                                    ; CODE XREF: 0000:0B11↑j
                                                                                   hl, #dk_normal_spr
copy_sprites_2_11_data
de, #soft_sprite_ram
bc, #8
                                                                   ld
                                                                   call
ld
ld
0B27 01 08 00

0B2A ED B0

0B2C 21 08 69

0B2F 0E 50

0B31 FF

0B32 21 0B 69

0B35 0E FC

0B37 FF

0B38
                                                                   ldir
                                                                   ld
ld
                                                                                   hl, #soft_sprite_ram+8
c, #0x50 ; 'P'
                                                                                                                                                                   ; sprite #2, y coord
                                                                                   0x38
                                                                   rst
                                                                                   hl, #soft_sprite_ram+0xB
c, #0xFC; '3'
0x38
                                                                   ld
                                                                                                                                                                   ; sprite #2, x coord
                                                                   ld
rst
0B38 0B38 CD 4A 30 0B38 BA 8E 63 0B3E FE 0A 0B43 3E 03 0B45 32 82 60 0B48 11 2C 39 0B4E CD A7 0D 0B50 32 AR 74 0B53 32 AR 74
                                  loc 0 B38:
                                                                                                                                                                    ; CODE XREF: 0000:0B40-i
                                                                                   sub_0_304A
a, (unk_0_638E)
#0xA
NZ, loc_0_B38
a, #3
                                                                   call
ld
                                                                   cp
jp
ld
ld
                                                                                                                                                                    ; tmr=3
                                                                                   a, #3
(digital_snd_tmr_thump), a
                                                                                   de, #draw_data_bend_girders_1
draw_level_background
                                                                   ld
                                                                   call
ld
ld
                                                                                   a, #0x10
(VRAM_start+0xAA), a
0B50 32 AA 74
0B53 32 8A 74
0B56 3E 05
0B58 32 8D 63
0B5B 3E 20
0B5D 32 09 60
0B60 21 85 63
0B63 34
0B64 22 C0 63
0B67 C9
0B68
0B68
                                                                                   (VRAM_start+0x8A), a
                                                                   ld
ld
ld
ld
                                                                                   a, #5
(unk_0_638D), a
                                                                                    a, #0x20 ; ' '
(eight_bit_countdown), a
                                                                   ld
inc
                                                                                   hl, #0x6385
(hl)
                                                                   ld
                                                                                   (unk_0_63C0), hl
0B68
                                  draw_rest_of_deformations:
                                                                                                                                                                    ; DATA XREF: 0000:0A86 o
0B68 3A 1A 60
0B6B 0F
0B6C D8
                                                                   ld
                                                                                   a, (gen_purpose_timer)
                                                                   rrca
                                                                   ret
0B6C D8
0B6D 2A C4 63
0B70 7E
0B71 FE 7F
0B73 CA 86 0B
0B76 23
0B77 22 C4 63
0B7A 21 0B 69
0B7D 4F
                                                                                   hl, (unk_0_63C4)
a, (hl)
#0x7F; ''
                                                                   1d
                                                                   ld
                                                                   ср
                                                                   jp
inc
ld
ld
                                                                                   Z, loc_0_B86
                                                                                   h1
                                                                                   (unk_0_63C4), hl
hl, #soft_sprite_ram+0xB
                                                                                                                                                                   ; sprite #2, x coord
                                                                                   c, a
0x38
                                                                   ld
                                                                   rst
ld
ld
0B7E FF
0B7F 21 08 69
0B82 0E FF
                                                                                   hl, #soft_sprite_ram+8
c, #0xFF
                                                                                                                                                                    ; sprite #2, y coord
                                                                                   0x38
0B82 0E
0B84 FF
0B85 C9
0B86
0B86
0B86
                                                                                                                                                                    ; subtract 1 from y coord for 10 sprites
                                                                   rst
                                  loc_0_B86:
                                                                                                                                                                    ; CODE XREF: 0000:0B731i
0B86 21 CB 38
0B89 22 C4 63
0B8C 3E 03
                                                                   ld
ld
ld
                                                                                   hl, #dk_intro_jump_across_data
(unk_0_63C4), hl
                                                                                  dunk_u_b3C4), h1
a, #3
(digital_snd_tmr_thump), a
h1, #draw_data_bend_girders_2
a, (unk_0_638D)
a
                                                                                                                                                                    ; tmr=3
0B8C 3E 03

0B8E 32 82 60

0B91 21 DC 38

0B94 3A 8D 63

0B97 3D

0B98 07

0B99 07

0B9A 07
                                                                   ld
ld
ld
                                                                   dec
                                                                   rlca
rlca
rlca
0B9B
0B9C
0B9D
0B9F
                                                                   rlca
                                                                   ld
ld
                                                                                   e, a
d, #0
hl, de
de, hl
          16 00
19
                                                                   add
OBAO EB
                                                                   ex
0BA0 EB
0BA1 CD A7 0D
0BA4 21 8D 63
0BA7 35
0BA8 C0
0BA9 3E B0
0BAB 32 09 60
                                                                   call
ld
                                                                                   draw_level_background
hl, #unk_0_638D
(hl)
                                                                   dec
                                                                   ret
                                                                                   NZ
         3E B0
32 09 60
21 85 63
34
                                                                   ld
ld
                                                                                   a, #0xB0; '\" (eight_bit_countdown), a
0BAE
                                                                   ld
                                                                                   hl, #intro_sequencer
(hl)
0BB1 34
0BB2 C9
0BB3
0BB3
                                   growl:
0BB3
                                                                                                                                                                    ; DATA XREF: 0000:0A8810
```

```
0BB3 21 8A 60
                                                                                hl, #unk_0_608A
                                                                 ld
0BB6 3A 09 60
0BB9 FE 90
0BBB 20 0B
0BBD 36 0F
                                                                 ld
                                                                                 a, (eight_bit_countdown)
#0x90 ; 'É'
                                                                 cp
jr
ld
                                                                                NZ, loc_0_BC8 (hl), #0xF
                                                                                (h1), #3
h1, #soft_sprite_ram+0x19
(h1)
0BBF
                                                                 inc
0BC0 36 03
0BC2 21 19 69
0BC5 34
                                                                ld
ld
                                                                                                                                                              ; sprite #6, flipy & code
                                                                 inc
OBC6 18 09
                                                                                loc 0 BD1
                                                                 jr
0BC8
0BC8
0BC8
                                 loc_0_BC8:
                                                                                                                                                              ; CODE XREF: 0000:0BBB<sup>†</sup>j
UBC8

0BC8 FE 18

0BCA 20 05

0BCC 21 19 69

0BCF 35

0BD0 00

0BD1

0BD1

0BD1
                                                                 cp
jr
ld
                                                                                #0x18
NZ, loc_0_BD1
hl, #soft_sprite_ram+0x19
(hl)
                                                                                                                                                              ; sprite #6, flipy & code
                                                                 dec
                                                                 nop
                                                                                                                                                               ; CODE XREF: 0000:0BC6<sup>†</sup>j; 0000:0BCA<sup>†</sup>j
                                 loc_0_BD1:
0BD1 DF
OBD1 DF

OBD1

OBD2 AF

OBD3 32 85 63

OBD6 34

OBD7 23

OBD8 34
                                                                rst
xor
ld
                                                                                                                                                               ; wait for 8-bit countdown
                                                                                0x18
                                                                                 a
(intro_sequencer), a
                                                                 inc
                                                                                 (h1)
0BD9 C9
                                                                 ret
ORDA
OBDA
OBDA
OBDA CD 1C 01
                                draw_how_high_can_you_get:
    call stop_sound
                                                                                                                                                               ; DATA XREF: 0000:0712<sup>†</sup>o
OBDA CD 1C 01
OBDD CD 1C
OBDE CD 74 08
OBE1 16 06
OBE3 3A 0 62
OBE6 5F 0BE7 CD 9F 30
OBEA 21 86 70
OBED 36 01
OBEF 23
OBF0 36 00
OBF2 21 8A 60
OBF5 36 02
OBF7 23
OBF8 36 03
OBFA 21 A7 63
OBFB 36 03
OBFB 21 DC 76
OC02 22 A8 63
OC5 3A 22 62
OC08 FE 06
CC0A 38 05
OC0C 3E 05
CC0C 3E 05
                                                                rst
call
                                                                                                                                                              ; 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
                                                                                hl, #palette_bank (hl), #1
                                                                 1d
                                                                 inc
ld
ld
                                                                                 (hl), #0
                                                                                h1, #unk_0_608A
(h1), #2
                                                                 ld
                                                                 inc
                                                                                hl (hl), #3
                                                                               (h1), #3
h1, #umk_0_63A7
(h1), #0
h1, #VRAM_start+0x2DC
(unk_0_63A8), h1
a, (unk_0_622E)
#6
C, loc_0_C11
a, #5
                                                                ld
ld
ld
ld
                                                                 cp
jr
ld
0C0C 3E 05

0C0E 32 2E 62

0C11

0C11

0C11 3A 2F 62

0C14 47

0C15 3A 2A 62

0C18 B8

0C19 28 04

0C1B 21 2E 62

0C1E 34
                                                                                (unk_0_622E), a
                                                                 1d
                                                                                                                                                              ; CODE XREF: 0000:0C0Afj
                                 loc_0_C11:
                                                                 ld
                                                                                a, (unk_0_622F)
                                                                               b, a
a, (seq_data)
                                                                ld
ld
cp
                                                                                Z, loc_0_C1F
hl, #upl-
                                                                 jr
ld
                                                                                 hl, #unk_0_622E
(hl)
0C1E 21 2E 62

0C1E 34

0C1F

0C1F 32 2F 62

0C22 3A 2E 62

0C25 47
                                 loc_0_C1F:
                                                                                                                                                              ; CODE XREF: 0000:0C191j
                                                                                a, (unk_0_622E)
b, a
                                                                 14
                                                                 ld
0C26 21 BC 75
                                                                                hl, #VRAM_start+0x1BC
                                                                ld
0C29
0C29
0C29
0C29 0E 50
                                                                                                                                                              ; CODE XREF: 0000:0C7F|j
                                 loc_0_C29:
                                                                               c, #0x50 ; 'P'
                                                                ld
0C2B
0C2B
0C2B 71
0C2C 0C
                                 loc_0_C2B:
                                                                                                                                                              ; CODE XREF: 0000:0C40-j
                                                                 ld
                                                                                (hl), c
                                                                 inc
0C2C 0C
0C2D 2B
0C2E 7C
0C30 2B
0C31 71
0C32 0C
0C33 2B
0C34 71
0C35 79
                                                                 dec
                                                                 ld
                                                                                 (hl), c
                                                                 inc
                                                                                hl
                                                                ld
inc
dec
                                                                                 (hl), c
                                                                                hl
                                                                 ld
                                                                                 (hl), c
0C34 71

0C35 79

0C36 FE 67

0C38 CA 43 0C

0C3B 0C

0C3C 11 23 00

0C3F 19

0C40 C3 2B 0C
                                                                ld
                                                                                 a, c
#0x67 ; 'g
                                                                                Z, loc_0_C43
                                                                 jp
inc
                                                                                de, #0x23 ; '#'
h1, de
loc_0_C2B
                                                                ld
add
                                                                 jр
0C43
0C43
0C43
0C43
0C43 3A A7 63
                                 loc_0_C43:
                                                                                                                                                               ; CODE XREF: 0000:0C38†j
                                                                 ld
                                                                                a, (unk 0 63A7)
         3C
32 A7 63
3D
                                                                inc
ld
dec
                                                                                 (unk_0_63A7), a
0C4A 3D
0C4B CB 27
0C4D CB 27
0C4F E5
0C50 21 F0 3C
0C53 C5
0C54 DD 2A A8 63
0C58 4F
0C59 06 00
                                                                 sla
                                                                sla
push
ld
                                                                                hl, #draw data how high
                                                                push
ld
ld
                                                                                bc
                                                                                 ix, (unk_0_63A8)
                                                                                c, a
b, #0
hl, bc
a, (hl)
0x60(ix), a
                                                                 ld
0C5B 09
                                                                 add
0C5C 7E
0C5D DD 77 60
                                                                 ld
ld
                                                                                0x60(ix), a
hl
a, (hl)
0x40(ix), a
hl
a, (hl)
0060
         23
7E
                                                                 inc
                                                                 ld
0C61 7E
0C62 DD 77 40
0C65 23
0C66 7E
                                                                 ld
                                                                 1d
                                                                                a, (hl)
0x20(ix), a
0C67 DD 77 20
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
0C6A DD 36 E0 8B
                                                   0xE0(ix), #0x8B; 'i'
                                         ld
                                         pop
push
pop
ld
0C6E C1
                                                   bc
0C6F DD E5
0C71 E1
0C72 11 FC FF
0C75 19
                                                   ix
hl
de, #0xFFFC
                                         add
                                                   hl,
                                                       de
```

```
ld
pop
ld
0C76 22 A8 63
                                                                       (unk_0_63A8), hl
0C70 22 A8 63
0C79 E1
0C7A 11 5F FF
0C7D 19
                                                                      de, #0xFF5F
                                                         add
                                                                      hl, de
0C7E 05
0C7F C2 29 0C
0C82 11 07 03
                                                         dec
jp
ld
                                                                                                                                          ; display_message_07
                                                                      de, #0x307
0C85 CD 9F 30
0C88 21 09 60
0C8B 36 A0
0C8D 23
                                                        call
ld
ld
                                                                      queue_fg_vector_fn
hl, #eight_bit_countdown
(hl), #0xA0 ; 'á'
                                                         inc
0C8D 23
0C8E 34
0C8F 34
0C90 C9
0C91
0C91
0C91
0C91 DF
                                                         inc
                                                                       (hl)
                                                         ret
                             wait_init_and_draw_level:
                                                                                                                                           ; DATA XREF: 0000:0716 o ; wait for 8-bit countdown
                                                        rst
0C92

0C92 CD 74 08

0C95 AF

0C96 32 8C 63

0C99 11 01 05

0C9C CD 9F 30

0C9F 21 86 7D

0CA2 36 00

0CA4 23

0CA5 36 01

0CA7 3A 27 62

0CAA 3D
                             ; CODE XREF: 0000:0776<sup>†</sup> †
                                                                      clear_visible_area_and_sprites
                                                        xor
                                                                       (bonus_timer), a
                                                                                                                                           ; init bonus timer
; update_bonus_timer
                                                         14
                                                                      de, #0x501
queue_fg_vector_fn
hl, #palette_bank
(hl), #0
                                                         ld
                                                        call
ld
                                                        ld
inc
ld
                                                                      (hl),
                                                                                                                                           ; select palette bank 2
                                                                      a, (level_type)
                                                         1d
                                                                                                                                           ; barrel level?
; yes, skip
; cement pie level?
; yes, skip
; elevator level?
; yes, skip
0CAA 3D
0CAB CA D4 0C
0CAE 3D
0CAF CA DF 0C
                                                                      a
Z, draw_barrel_level
                                                         dec
                                                        jp
dec
                                                        jp
dec
jp
call
                                                                      Z, draw_cement_pie_level
OCAF CA DF OC
OCB2 3D
OCB3 CA F2 OC
OCB6 CD 43 OD
OCB9 21 86 7D
OCBC 36 O1
OCBE 3E OB
OCCO 32 89 60
OCC3 11 8B 3C
                                                                       a
Z, draw_elevator_level
                                                                      draw_rivet_level_top_support
                                                                      araw_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
0CC6
0CC6
0CC6 CD A7 0D
                             draw_level_tilemap:
                                                                                                                                           ; CODE XREF: 0000:0CDC/j
                                                                                                                                           ; 0000:0CEF | j ...
OCC6 CD A7 OD
OCC6
OCC9 3A 27 62
OCCC FE 04
OCCE CC 00 OD
OCD1 C3 A0 3F
OCD4
OCD4
                                                                      a, (level_type) #4
                                                         call
                                                                      draw_level_background
                                                                                                                                           ; draw screen
                                                         ld.
                                                                                                                                           ; rivets?
; yes, call
                                                         ср
                                                                      Z, draw_8_rivets
init_level_data_tmrs_spr
                                                         call
                                                         jp
OCD4
OCD4 11 E4 3A
OCD7 3E 08
OCD9 32 89 60
                             draw_barrel_level:
                                                                                                                                           ; CODE XREF: 0000:0CAB<sup>†</sup> i
                                                                      de, #barrel_level_tilemap_data
a, #8
                                                                       a, #8 (bg_music),
                                                         ld
                                                                      (pg_music), a
draw_level_tilemap
0CDC C3 C6 0C
0CDF
0CDF
                                                         jр
0CDF
                             draw_cement_pie_level:
                                                                                                                                           ; CODE XREF: 0000:0CAF^i
OCDF 11 5D 3B
OCE2 21 86 7D
OCE5 36 01
OCE7 23
                                                                      de, #cement_pie_level_tilemap_data
hl, #palette_bank
(hl), #1
                                                        ld
ld
                                                         inc
                                                                      hl
                                                                      (hl), #0
a, #9
(bg_music),
OCEA 36 00
OCEA 3E 09
OCEC 32 89 60
                                                         ld
                                                                                                                                           ; select palette #1
                                                         ld
                                                         ld
OCEF C3 C6 OC
OCF2
OCF2
OCF2
                                                         jp
                                                                      draw level tilemap
                                                                                                                                           ; CODE XREF: 0000:0CB31j
                             draw elevator level:
OCF2 CD 27 OD
OCF5 3E OA
OCF7 32 89 60
OCFA 11 E5 3B
                                                        call
ld
ld
                                                                      draw_2_elevator_cables
a, #0xA
                                                                       a, #UXA
(bg_music), a
                                                                      de, #elevator_level_tilemap_data
                                                         ld
OCFD C3 C6 OC
                                                         jp
                                                                      draw_level_tilemap
0D00
0D00
                                                       SUBROUTINE
0D00
0D00
0D00
0D00
0D00 06 08
0D02 21 17 0D
                                                                                                                                              CODE XREF: 0000:0CCE↑p
                             draw_8_rivets:
                                                                      b, #8
hl, #rivet_loc_tbl
                                                         ld
ld
                                                                                                                                           ; 8 rivets
0D05
0D05
0D05
                                                                                                                                           ; CODE XREF: draw_8_rivets+14|j
; top of rivet tile
; 2 tiles/rivet (vertical)
                             draw_rivet:
                                                                      a, #0xB8 ; '©
                                                         ld
        0E 02
5E
23
56
0D07
                                                        ld
ld
0D07
0D09
0D0A
0D0B
                                                                           (hl)
                                                                      d, (hl)
                                                         ld
0D0C 23
0D0D
0D0D
                                                         inc
                                                                      hl
                                                                                                                                           ; get VRAM location
                             loc_0_D0D:
                                                                                                                                              CODE XREF: draw_8_rivets+11|j
                                                                                                                                              draw rivet tile
next rivet tile
next VRAM location
0D0D 12
                                                         1d
                                                                      (de), a
ODOE
ODOF
OD10
        3D
13
0D
                                                        dec
inc
dec
                                                                                                                                              done a rivet?
0D11 C2 0D 0D
0D14 10 EF
0D16 C9
                                                                      NZ, loc 0 D0D
                                                         jр
                                                                      draw_rivet
                                                         djnz
                                                                                                                                           ; loop through 8 rivets
                                                         ret
                             ; End of function draw_8_rivets
0D16
0D16
0D16
0D17 CA 76
                                                                                                                                           ; DATA XREF: draw_8_rivets+2\u00f10
; Rivets level, location of rivets
                             rivet_loc_tbl: .dw VRAM_start+0x2CA
0D17
0D19 CF 76
                                                         .dw VRAM start+0x2CF
0D1B D4 76
0D1D D9 76
                                                         .dw VRAM_start+0x2D4
.dw VRAM_start+0x2D9
0D1F 2A 75
0D21 2F 75
                                                         .dw VRAM_start+0x12A
.dw VRAM_start+0x12F
```

```
0D23 34 75
0D25 39 75
                                                    .dw VRAM_start+0x134
                                                    .dw VRAM start+0x139
0D25 39 75

0D27

0D27

0D27

0D27

0D27

0D27

0D27 21 0D 77

0D2A CD 30 0D
                                                   SUBROUTINE |
                           draw_2_elevator_cables:
                                                                                                                                ; CODE XREF: 0000:0CF21p
                                                                hl, #VRAM_start+0x30D
draw_elevator_cable
                                                    ld
call
                           id hl, #VRAM_start+0x20D; End of function draw_2_elevator_cables
0D2D 21 0D 76
0D2D
0D2D
0D30
0D30
0D30
0D30
0D30
0D30
                                                  SUBROUTINE
                                                                                                                                 ; CODE XREF: draw_2_elevator_cables+3<sup>p</sup>
                          draw elevator cable:
0D30

0D30 06 11

0D32

0D32 36 FD

0D34 23

0D35 10 FB

0D37 11 0F 00
                                                                 b, #17
                                                                                                                                 ; cable height 17 tiles
                                                                                                                                   CODE XREF: draw_elevator_cable+5|j vertical bar tile left edge
                          loc_0_D32:
                                                                 (hl), #0xFD; '2'
                                                    ld
                                                                 hl
loc_0_D32
                                                                                                                                 ; next row
; loop cable height
                                                    djnz
                                                                 de, #0xF
hl, de
b, #17
                                                    ld
                                                    add
0D3A 19
                                                                                                                                 ; next column
0D3A 19

0D3B 06 11

0D3D

0D3D 0

0D3D 36 FC

0D3F 23

0D40 10 FB

0D42 C9
                                                    ld
                                                                                                                                 ; cable height 17 tiles
                                                                                                                                 ; CODE XREF: draw_elevator_cable+10|j
; vertical bar tile right edge
                           loc 0 D3D:
                                                                 (hl), #0xFC; '3'
                                                    14
                                                                                                                                 ; next row
; loop cable height
                                                    inc
djnz
                                                                 hl
loc_0_D3D
                                                    ret
0D42
0D42
0D43
0D43
                           ; End of function draw_elevator_cable
                                                  SUBROUTINE
0D43
0D43
0D43
                                                                                                                                ; CODE XREF: 0000:0CB6†p
                           draw_rivet_level_top_support:
                                                                hl, #VRAM_start+0x287
draw_support_bars
hl, #VRAM_start+0x147
0D43 21 87 76
                                                    ld
0D43 21 87 76

0D46 CD 4C 0D

0D49 21 47 75

0D49

0D49

0D4C

0D4C

0D4C
                                                    call
ld
                           ; End of function draw rivet level top support
                                                  SUBROUTINE
                                                                                                                                 ; CODE XREF: draw_rivet_level_top_support+3\uparrowp ; 4 rows to draw
0D4C
0D4C 06 04
                           draw_support_bars:
                                                                 b, #4
0D4E
                                                                                                                                 ; CODE XREF: draw_support_bars+5|;
; vertical bar tile left edge
; next row
0D4E
0D4E 36
0D50 23
                           loc_0_D4E:
       36 FD
                                                                 (hl), #0xFD; '2'
                                                                 hl
0D51 10 FB
0D53 11 1C 00
0D56 19
0D57 06 04
                                                                 loc_0_D4E
                                                    djnz
                                                    ld
add
                                                                 de, #0x1C
                                                                                                                                 ; next column ; 4 rows to draw
                                                    ld
                                                                 b, #4
0D57 06 04
0D59
0D59
0D59 36 FC
0D5B 23
0D5C 10 FB
                                                                                                                                 ; CODE XREF: draw_support_bars+10|j
; vertical bar tile right edge
; next row
                           loc_0_D59:
                                                                 (hl), #0xFC; '3'
                                                    ld
                                                                 loc 0 D59
                                                    dinz
0D5E C9
0D5E
                           ret; End of function draw_support_bars
0D5E
0D5F
OD5F
OD5F
                           init_level_data_tmrs_spr_cont:
                                                                                                                                ; CODE XREF: 0000:3FA3|j
0D5F CD 56 0F 0D62 CD 41 24 0D65 21 09 60 0D68 36 40
                                                    call
                                                                 initialise_level_data_and_timers
                                                                 sub_0_2441
hl, #eight_bit_countdown
(hl), #0x40; '@'
                                                    call
ld
                                                    ld
0D6A 23
0D6B 34
0D6C 21 5C 38
0D6F CD 4E 00
                                                    inc
inc
                                                                                                                                 ; main_sequencer
; next sequence (2)
                                                                 hl
                                                                 (hl)
hl, #dk_normal_spr
copy_sprites_2_11_data
                                                    ld
call
0D72 11 00 69
0D75 01 08 00
0D78 ED B0
                                                                                                                                 ; sprites 0,1
; 8 bytes to copy
; copy pauline sprite
                                                                 de, #soft_sprite_ram
bc, #8
                                                    ld
                                                    ld
ldir
0D7A 3A 27 62
0D7D FE 04
0D7F 28 0A
0D81 0F
                                                                 a, (level_type)
                                                    ld
                                                    cp
jr
                                                                                                                                 ; rivets?
; yes, skip
                                                                 Z, adj_pauline_kong_for_rivets
                                                    rrca
0D81 OF

0D82 OF

0D83 D8

0D84 21 OB 69

0D87 OE FC

0D89 FF
                                                                                                                                 ; level 2/3?
                                                    rrca
                                                                                                                                    yes, return sprite #2 (kong), x coord
                                                                 hl, #soft_sprite_ram+0xB
                                                    ld
                                                                 c, #0xFC;
0x38
                                                                                                                                 ; subtract 4 from x coord for 10 sprites
                                                    rst
0D8A C9
0D8B
0D8B
                                                                                                                                ; CODE XREF: 0000:0D7F<sup>†</sup>j; sprite #2 (Kong), xcoord
0D8B
                           0D8B 21 08 69
0D8E 0E 44
0D90 FF
                                                                 hl, #soft_sprite_ram+8
c, #68
                                                    ld
                                                                 c, #6
                                                                                                                                ; add 68 to x coord for 10 sprites
                                                    rst
0D90 PF
0D91 11 04 00
0D94 01 10 02
0D97 21 00 69
                                                    ld
ld
ld
                                                                 de, #4
bc, #0x210
hl, #soft_sprite_ram
add_c_sprite_register_xB
                                                                                                                                ; sprite #0 (Pauline), y coord
0D9A CD 3D 00
                                                    call
0D9A CD 3D 00
0D9D 01 F8 02
0DA0 21 03 69
0DA3 CD 3D 00
                                                                 bc, #0x2F8
hl, #soft_sprite_ram+3
add_c_sprite_register_xB
                                                    ld
                                                    ld
                                                                                                                                 ; sprite #0 (Pauline), x coord
                                                    call
0DA3 CD
0DA6 C9
0DA7
0DA7
0DA7
                                                    ret
                                                                                                                                    CODE XREF: 0000:0A95↑p
                          draw level background:
0DA7 1A
0DA7
0DA8 32 B3 63
                                                                                                                                   0000:0B4B1p ...
                                                    ld
ld
                                                                     (de)
                                                                                                                                    get flag
store for later
                                                                 (segment_type), a
                                                    cp
ret
inc
ld
ODAB FE AA
                                                                 #0xAA ;
                                                                                                                                    done?
ODAD C8
ODAE 13
ODAF 1A
                                                                                                                                   yes, return
next table address
get_byte
                                                                a, (de)
h, a
                                                                 de
0DB0 67
                                                    1d
                                                                 h, a
b, h
                                                                                                                                    H=Y1
0DB1 44
                                                                                                                                   B=Y1
```

```
0DB2 13
                                                                                                                                next table address
                                                               a, (de)
1, a
c, 1
0DB3 1A
0DB4 6F
0DB5 4D
0DB6 D5
                                                   1d
                                                                                                                                get byte
                                                   ld
ld
                                                   push
                                                               get_tilemap_addr_from_coords de
ODB7 CD FO 2F
                                                   call
                                                   pop
ld
ld
ODBA D1
ODBB 22 AB 63
ODBE 78
                                                                (segment_addr_1), hl
                                                                                                                             ; store vram address #1
0DBF E6 07
                                                   and
0DC1 32 B4 63
0DC4 79
0DC5 E6 07
                                                   ld
                                                               (tile_byte_1), a
                                                   ld
                                                   and
ODC7 32 AF 63
ODCA 13
                                                   ld
inc
                                                                (start_tile_index), a
                                                                                                                             ; next table entry
ODCB 1A
ODCC 67
                                                   ld
                                                                                                                             ; Y2
; H=Y2
                                                   ld
                                                                                                                             ; calc delta Y
; no, skip
; delta Y
                                                   sub
jp
0DCD 90
0DCE D2 D3 0D
0DD1 ED 44
                                                               NC, loc_0_DD3
                                                   neg
0DD3
0DD3
0DD3 32 B1 63
0DD6 13
                          loc_0_DD3:
                                                                                                                             ; CODE XREF: 0000:0DCE<sup>†</sup> j
                                                   ld
                                                                (dY), a
                                                                                                                             ; next entry
                                                   inc
ld
                                                               de
a, (de)
1, a
0DD7 1A
                                                                                                                             ; X2
ODD8 6F
ODD9 91
ODDA 32 B2 63
ODDD 1A
                                                   ld
sub
                                                                                                                             ; L=X2
; calc delta X
                                                               (dX)
                                                   ld
                                                               a, (de)
                                                                                                                             ; X2 (again)
; TILE bits only
                                                   ld
ODDE E6 07
ODE0 32 B0 63
ODE3 D5
                                                   and
ld
                                                                (end_tile_index), a
                                                               ue
get_tilemap_addr_from_coords
de
                                                   push
ODE3 D5
ODE4 CD F0 2F
ODE7 D1
ODE8 22 AD 63
ODEB 3A B3 63
                                                   call
pop
ld
                                                                                                                             ; store vram address #2
; flag
; >=2?
                                                               (segment_addr_2), hl
                                                   ld
                                                               a, (segment_type)
#2
ODEE FE 02
ODF0 F2 4F 0E
ODF3
                                                   cp
jp
                                                               P, draw_girder_segment
                                                                                                                             ; yes, skip
0DF3
                          draw ladder segment:
ODF3 3A B2 63
ODF6 D6 10
                                                                a, (dX)
#0x10
                                                                                                                             ; calc starting tile index adjustment
ODF8 47
ODF9 3A AF 63
                                                               b, a
a, (start_tile_index)
                                                   ld
                                                   ld
                                                   add
ld
                                                               a, b (dX), a
                                                                                                                             ; adjust
                                                               (ax), a
a, (start_tile_index)
a, #0xF0; '-'
h1, (segment_addr_1)
(h1), a
0E00 3A AF 63
0E03 C6 F0
                                                   ld
                                                   add
                                                                                                                             ; girder top, no ladder above
0E05 2A AB 63
0E08 77
0E09 2C
                                                   ld
ld
                                                                                                                             ; display tile
                                                   inc
                                                                                                                             ; next row
0E0A D6 30
0E0C 77
0E0D 3A B3 63
                                                                                                                             ; matching ladder tile
; display it
                                                                #0x30 ; '0'
                                                   sub
                                                               (hl), a
a, (segment_type)
#1
                                                   ld
0E10 FE 01
0E12 C2 19 0E
0E15 AF
0E16 32 B2 63
                                                   cp
jp
                                                                                                                             ; broken ladder?
                                                               NZ, next_tile_in_ladder_segment
                                                                                                                             ; no, skip
; flag end-of-ladder
                                                               a (dX), a
                                                   ld
0E19
0E19
0E19 3A B2 63
0E19
                                                                                                                             ; CODE XREF: 0000:0E12<sup>†</sup>j; 0000:0E27<sup>†</sup>j
                          next_tile_in_ladder_segment:
                                                   ld
                                                               a, (dX)
0E19
0E1C D6 08
0E1E 32 B2 63
0E21 DA 2A 0E
                                                   sub
                                                                                                                             ; finished ladder?
                                                               (dX), a
C, loc_0_E2A
                                                   ld
                                                   jр
0E24 2C
0E25 36 C0
0E27 C3 19 0E
0E2A
                                                                                                                             ; next row
; full ladder tile
                                                                (hl), #0xC0; 'L'
                                                   14
                                                               next_tile_in_ladder_segment
                                                   jр
0E2A
0E2A
0E2A 3A B0 63
0E2D C6 D0
                          loc_0_E2A:
                                                                                                                             ; CODE XREF: 0000:0E21 j
                                                               a, (end_tile_index)
                                                               hl, (segment_addr_2) (hl), a
                                                                                                                             ; girder top, bottom of ladder
                                                   add
0E2F 2A AD 63
0E32 77
0E33 3A B3 63
0E36 FE 01
                                                   ld
ld
ld
                                                                                                                             ; vram address
                                                               a, (segment_type)
                                                                                                                             ; broken ladder?
UE36 FE 01
0E38 C2 3F 0E
0E3B 2D
0E3C 36 C0
0E3E 2C
                                                   ср
                                                   jp
dec
                                                                                                                             ; no, skip
; row above
; display full ladder tile
; re-adjust row
                                                               NZ, loc_0_E3F
                                                               1
(h1), #0xC0; 'L'
                                                   inc
0E3F
0E3F
0E3F 3A B0 63
                                                               a, (end_tile_index)
#0
                          loc_0_E3F:
                                                                                                                             ; CODE XREF: 0000:0E381j
                                                   ld
0E3F 3A B0 63

0E42 FE 00

0E44 CA 4B 0E

0E47 C6 E0

0E49 2C

0E4A 77
                                                   cp
jp
add
                                                                                                                             ; 2nd tile (below) req'd?
                                                               Z, loc_0_E4B
a, #0xE0 ; '(
                                                                                                                             ; no, skip
; bottom of girder, no ladder below
                                                   inc
                                                                1 (h1), a
                                                                                                                             ; next row
; display tile
0E4B
0E4B
0E4B 13
                                                                                                                             ; CODE XREF: 0000:0E44<sup>†</sup>j
                          loc_0_E4B:
                                                                                                                             ; next entry
; loop through level data
0E4C C3 A7 0D
0E4F
                                                               draw level background
0E4F
                                                                                                                            ; CODE XREF: 0000:0DF0^j
0E4F
                          draw girder segment:
                                                               a, (segment_type)
#2
0E4F 3A B3 63
0E52 FE 02
0E54 C2 E8 0E
0E57 3A AF 63
                                                   ld
                                                   ср
                                                                                                                             ; girder?
; no, skip
                                                               NZ, draw_conveyor_segment
                                                   jp
ld
0E57 3A AF 63
0E5A C6 F0
0E5C 32 B5 63
0E5F 2A AB 63
                                                               a, (start_tile_index)
a, #0xF0; '-'
                                                                                                                             ; girder top (no ladder above)
; initialise girder segment tile
; 'from' address
                                                   add
ld
                                                                 current_tile_in_segment), a
                                                   ld
                                                               hl, (segment addr 1)
0E62
0E62
0E62 3A B5 63
                                                                                                                             ; CODE XREF: 0000:0E8C|j; 0000:0ECC|j ...
                          next_tile_in_girder_segment:
                                                                    (current_tile_in_segment)
0E62
                                                   ld
0E65 77
                                                                (hl), a
                                                                                                                             ; display it
                                                   ld
                                                   inc
ld
                                                               hl
a, l
                                                                                                                             ; bottom of screen?
; yes, skip
0E68 E6 1F
0E6A CA 78 0E
0E6D 3A B5 63
0E70 FE F0
                                                   and
                                                               z, loc_0_E78
a, (current_tile_in_segment)
#0xF0 ; '-'
                                                                                                                             ; full girder?
                                                   ср
                                                               Z, loc_0_E78
#0x10
0E72 CA 78 0E
0E75 D6 10
                                                                                                                             ; yes, skip
; get matching bottom piece
```

```
0E77 77
                                                                (hl), a
                                                   ld
                                                                                                                               ; display it
0E78
0E78
0E78 01 1F 00
0E78
                                                                                                                               ; CODE XREF: 0000:0E6A<sup>†</sup>j; 0000:0E72<sup>†</sup>j
                          loc_0_E78:
                                                                bc, #0x1F
hl, bc
0E78
0E7B 09
0E7C 3A B1 63
0E7F D6 08
0E81 DA CF 0E
                                                                                                                               ; next column
                                                    add
                                                                a, (dY)
#8
                                                    14
                                                                                                                               ; finished? (ignore [2:0])
; yes, skip
                                                    sub
                                                                     next_segment
                                                    jp
ld
0E81 DA CF 0E
0E84 32 B1 63
0E87 3A B2 63
0E8A FE 00
0E8C CA 62 0E
0E8F 3A B5 63
0E92 77
                                                                (aY), a
a, (dX)
#0
                                                    ld
                                                                                                                               ; angled?
; no, loop
                                                    ср
                                                                Z, next_tile_in_girder_segment
                                                    jp
ld
                                                                a, (current_tile_in_segment)
(hl), a
0E92 77
0E93 23
0E94 7D
                                                                                                                               ; display it ; next row
                                                    ld
                                                                hl
a, l
#0x1F
                                                    inc
ld
0E95 E6 1F
0E97 CA A0 0E
0E9A 3A B5 63
0E9D D6 10
                                                    and
jp
ld
                                                                                                                               ; bottom of screen?
; yes, skip
                                                                 Z, loc_0_EA0
                                                                a, (current_tile_in_segment)
                                                    sub
                                                                 #0x10
                                                                                                                               ; get matching bottom piece
; display it
0E9F 77
0EA0
0EA0
                                                    ld
                                                                (hl), a
                                                                                                                               ; CODE XREF: 0000:0E97<sup>†</sup>j
                          loc 0 EA0:
0EA0 01 1F 00
                                                                bc, #0x1F
hl, bc
a, (dY)
#8
                                                    ld
0EAO 01 1F 00

0EA3 09

0EA4 3A B1 63

0EA7 D6 08

0EA9 DA CF 0E

0EAC 32 B1 63

0EBA 3A B2 63

0EBB CB 7F
                                                    add
ld
                                                                                                                               ; next column
                                                                                                                               ; finished? (ignore [2:0])
; yes, skip
                                                    sub
                                                    jp
ld
ld
                                                                     next_segment
                                                                (dY), a
a, (dX)
7, a
                                                                                                                               ; sloping up? ; no, skip
                                                    bit
0EB4 C2 D3 0E
0EB7 3A B5 63
0EBA 3C
0EBB 32 B5 63
                                                    jp
ld
                                                                NZ, girder_sloping_down
a, (current_tile_in_segment)
                                                                                                                               ; next tile
                                                                 (current_tile_in_segment), a
                                                    ld
0EBB 52 B3 03
0EBE FE F8
0EC0 C2 C9 0E
0EC3 23
                                                                                                                               ; time to wrap tile?
; no, skip
; next row
                                                    cp
jp
                                                                #0xF8; '°'
NZ, loc_0_EC9
                                                                hl
                                                                   , #0xF0 ; '-'
0EC4 3E F0
                                                    ld
                                                                                                                                ; init current tile
0EC4 3E F0
0EC6 32 B5 63
0EC9
0EC9
0EC9 7D
                                                    ld
                                                                 (current_tile_in_segment), a
                                                                                                                               ; CODE XREF: 0000:0ECO11
                          loc 0 EC9:
                                                    ld
0ECA E6 1F
0ECC C2 62 0E
0ECF
                                                                                                                                ; bottom of screen?
; no, loop
                                                                NZ, next_tile_in_girder_segment
                                                    jр
                                                                                                                                ; CODE XREF: 0000:0E811i
ORCE
                          next_segment:
0ECF 13
0ECF
                                                                                                                                ; 0000:0EA91j ...
                                                    inc
                                                                                                                               ; next entry
; loop for all entries
0ED0 C3 A7 0D
                                                                draw level background
0ED3
0ED3
0ED3
                                                                                                                               ; CODE XREF: 0000:0EB4<sup>†</sup>j
                          girder_sloping_down:
0ED3 3A B5 63
0ED6 3D
0ED7 32 B5 63
0EDA FE F0
                                                    1d
                                                                a, (current_tile_in_segment)
                                                                                                                               ; next tile in sequence is -1
                                                    ld
                                                                 (current_tile_in_segment), a
                                                                                                                                ; time to wrap tile?
                                                    ср
0EDA FE FO

0EDC F2 E5 0E

0EDF 2B

0EE0 3E F7

0EE2 32 B5 63

0EE5
                                                                                                                                ; no, skip
; next row
; init current tile
                                                    jp
dec
                                                                   loc_0_EE5
                                                    1d
                                                                    #0xF7 ; ','
                                                                (current tile in segment), a
                                                    ld
0EE5
0EE5 C3 62 0E
                                                                                                                               ; CODE XREF: 0000:0EDC<sup>†</sup>j; loop
                           loc_0_EE5:
                                                                next_tile_in_girder_segment
                                                    jр
0EE8
0EE8
0EE8
                                                                                                                               ; CODE XREF: 0000:0E54†j
                           draw_conveyor_segment:
       3A B3 63
                                                                a, (segment_type)
                                                    ld
OEEB FE 03
OEED C2 1B 0F
OEFO 2A AB 63
OEF3 3E B3
OEF5 77
                                                    ср
                                                                                                                               ; conveyor?
; no, skip
                                                                NZ, draw_other_segments
hl, (segment_addr_1)
a, #0xB3; '|
                                                                                                                                ; empty tile!?!
                                                    ld
                                                                a, #VARD (hl), a bc, #0x20; ''hl, bc a, (dY)
                                                                                                                                ; display it
                                                    1d
0EF5 77
0EF6 01 20 00
0EF9 09
0EFA 3A B1 63
                                                    ld
                                                    add
                                                                                                                               ; next column
                                                    ld
                                                                a, (d) #0x10
0EFA SA BI
0EFD D6 10
0EFF
0EFF
                                                    sub
                                                                                                                               ; 2nd last tile?
                                                                                                                                ; CODE XREF: 0000:0F11|j
                          next_tile_on_coneyor_segment:
0EFF DA 14 0F
0F02 32 B1 63
0F05 3E B1
0F07 77
                                                    jp
ld
                                                                    end_of_conveyor_segment
                                                                                                                               ; yes, skip
                                                                (dY), a
a, #0xB1; '
(h1), a
bc, #0x20; '
h1, bc
                                                    ld
ld
                                                                                                                               ; conveyor tile
; display it
0F08 01 20 00
                                                    ld
0F0B 09
0F0C 3A B1 63
0F0F D6 08
0F11 C3 FF 0E
                                                    add
ld
                                                                                                                               ; next column
                                                    sub
                                                                next_tile_on_coneyor_segment
                                                                                                                               ; loop through conveyor
0F14
0F14
0F14
                                                                                                                                ; CODE XREF: 0000:0EFF†j
                           end_of_conveyor_segment:
0F14 3E B2
0F16 77
0F17 13
                                                    1d
                                                                a, #0xB2; '|| '
(h1), a
                                                                                                                               ; end of conveyor
; display it
                                                    ld
0F17 13
0F18 C3 A7 0D
                                                                draw level background
                                                                                                                                ; return
                                                    αĖ
                          draw_other_segments:
                                                                                                                               ; CODE XREF: 0000:0EED<sup>†</sup>j
                                                                a, (segment_type)
#7
0F1B 3A B3 63
                                                    ld
0F1E FE 07
0F20 F2 CF 0E
0F23 FE 04
0F25 CA 4C 0F
                                                                                                                               ; valid segment?
; no, continue
; blank?
                                                    cp
jp
                                                                 P, next_segment
                                                    ср
                                                                                                                                  yes, skip
rivet level girder?
yes, skip
                                                    jp
cp
jp
ld
                                                                Z, draw_blank_segment
                                                                #5
Z, draw_rivet_level_girder
0F28 FE 05
0F2A CA 51 0F
                                                                                                                                ; yes, skip
; oil barrel stand (conveyor level)
OF2D 3E FE
OF2F
0F2F
0F2F 32 B5 63
                          loc_0_F2F:
                                                                                                                               ; CODE XREF: 0000:0F4E|j; 0000:0F53|j
                                                                 (current tile in segment), a
0F2F
                                                    ld
0F32 2A AB 63
0F35
0F35
                                                    ld
                                                                hl, (segment_addr_1)
                                                                                                                               ; CODE XREF: 0000:0F45|j
                          next_other_segment_tile:
OF35 3A B5 63
OF38 77
                                                    1d
                                                                     (current_tile_in_segment)
                                                    ld
                                                                (hl), a
                                                                                                                               ; display tile
```

```
bc, #0x20; ''hl, bc
a, (dY)
0F39 01 20 00
                                                       ld
0F3C 09
                                                       add
                                                                                                                                       ; next column
0F3C 09
0F3D 3A B1 63
0F40 D6 08
0F42 32 B1 63
0F45 D2 35 0F
                                                       ld
                                                       sub
ld
                                                                                                                                       ; done?
                                                                     (dY),
                                                                    NC, next_other_segment_tile de
                                                                                                                                       ; no, loop
                                                       jp
inc
0F48 13
0F49 C3 A7 0D
0F4C
                                                                    draw_level_background
                                                       jр
0F4C
0F4C
0F4C 3E E0
0F4E C3 2F 0F
                            draw_blank_segment:
                                                                                                                                       ; CODE XREF: 0000:0F25<sup>†</sup>j; blank tile
                                                                    a, #0xE0 ; 'Ó'
loc_0_F2F
                                                       jр
0F51
0F51
0F51
0F51 3E B0
                                                                                                                                       ; CODE XREF: 0000:0F2A<sup>†</sup>j; rivet level girder
                            draw_rivet_level_girder:
                                                                    a, #0xB0 ; '"
                                                       ld
0F53 C3 2F 0F
0F56
0F56
                                                                    loc_0_F2F
                                                                                                                                       ; CODE XREF: 0000:0D5F1p
0F56
                            initialise_level_data_and_timers:
                                                       1d
                                                                    b, #39
hl, #mario_alive_flag
                                                       ld
                                                       xor
                            loc_0_F5C:
                                                                                                                                       ; CODE XREF: 0000:0F5E|j
                                                                     (hl), a
                                                       inc
                                                                    loc_0_F5C
                                                       ding
                                                                                                                                       ; clear 39 bytes
                                                       ld
ld
ld
                                                                    c, #17
d, #128
h1, #unk_0_6280
                                                                                                                                       ; $6280-$6AFF cleared
0F67
0F67
0F67 42
0F68
                                                                                                                                       ; CODE XREF: 0000:0F6D|j; 128 bytes to clear
                            loc_0_F67:
                                                      ld
0F68
0F68 77
0F69 23
                                                                                                                                       ; CODE XREF: 0000:0F6A|j
; clear byte
                            loc_0_F68:
                                                       ld
                                                                     (hl), a
0F69 23
0F6A 10 FC
0F6C 0D
0F6C 0D F8
0F6F 21 9C 3D
0F72 11 80 62
0F75 01 40 00
0F78 ED B0
0F7A 3A 29 62
0F7B 17
0F8E A7
0F7F 17
0F80 A7
0F81 17
0F82 A7
0F83 17
0F83 17
                                                                    loc 0 F68
                                                       djnz
                                                                                                                                       ; clear 128 bytes
                                                       dec
jr
ld
                                                                                                                                       ; clear 17*128=2176($880) bytes
                                                                    h1, #level_init_data
de, #unk_0_6280
bc, #64
                                                       ld
                                                       ld
ldir
                                                                                                                                       ; init 64 bytes
                                                                    a, (level)
b, a
                                                       ld
                                                       ld
                                                       and
rla
                                                                                                                                        ; level * 2
                                                       and
                                                                    а
                                                       rla
and
rla
                                                                                                                                        ; level * 4
                                                                    a
                                                                                                                                       ; level * 8
; level * 9
; level * 10
; level * 10 + 40
0F82 A7
0F83 17
0F84 80
0F85 80
0F86 C6 28
0F88 FE 51
                                                                    a, b
a, b
a, #40
#81
                                                       add
                                                       add
add
                                                       cp
jr
ld
                                                                                                                                        ; max?
0F8A 38 02
0F8C 3E 50
0F8E
                                                                    C, loc_0_F8E
a, #80
                                                                                                                                       ; no, skip
; max out at 80
                                                                                                                                       ; CODE XREF: 0000:0F8A†j
                            loc 0 F8E:
ld
                                                                    hl, #unk_0_62B0
b, #3
                                                                                                                                       ; 3 timers to initialise
                            loc_0_F93:
                                                                                                                                        ; CODE XREF: 0000:0F95|j
                                                                                                                                       ; store timer value; next timer; loop for 3 timers; level * 20 + 80
                                                       ld
                                                                     (hl), a
                                                       inc
djnz
                                                                    loc_0_F93
                                                       add
                                                                    a, a
b, a
a, #220
0F98 47
0F99 3E DC
0F9B 90
                                                       ld
ld
                                                                                                                                       ; 220-(level*20+80)=140-level*20
                                                       sub
0F9C FE 28
0F9E 30 02
0FAO 3E 28
0FA2
                                                       cp
jr
ld
                                                                                                                                       ; min?
; no, skip
; set min=40
                                                                     #40
                                                                    NC, loc_0_FA2
a, #40
; CODE XREF: 0000:0F9E↑j
; set timer
; next timer
                            loc_0_FA2:
                                                       ld
                                                                    (hl), a
                                                       inc
                                                                    1
(h1), a
h1, #unk_0_6209
(h1), #4
                                                       ld
                                                                                                                                        ; set timer
                                                       ld
ld
                                                       inc
ld
                                                                    (hl), #8
                                                                    a, (level_type)
                                                       ld
ld
                                                                    2, a
2, a
NZ, loc_0_FCB
hl, #soft_sprite_ram+0x100
a, #0x4F; 'O'
b, #3
                                                                                                                                       ; rivets level?
; yes, skip
; sprite #64, y coord
; sprite X position
; 3 sprites to draw
                                                       bit
                                                       jr
ld
ld
OFBA 06 03
OFBC
OFBC 77
OFBD 2C
OFBE 36 3A
OFC0 2C
OFC1 36 0F
OFC3 2C
OFC4 36 18
OFC6 2C
OFC7 C6 10
OFC9 10 F1
                                                       ld
                                                                                                                                       ; CODE XREF: 0000:0FC9|j; set sprite X pos
                            erase_top_of_kong_ladder:
                                                                    (hl), a
                                                       ld
                                                       inc
                                                       ld
inc
ld
                                                                     (hl), #0x3A; ':'
                                                                                                                                       ; set sprite tile (blank)
                                                                     (hl), #0xF
                                                                                                                                       ; set sprite colour
                                                       inc
                                                                    (hl), #0x18
                                                       ld
                                                                                                                                       ; set sprite Y pos
                                                       inc
                                                                    1
a, #0x10
                                                                                                                                       ; next X pos
; loop for 3 sprites
                                                       djnz
                                                                    erase_top_of_kong_ladder
OFCB
OFCB
OFCB 79
OFCC EF
                                                                                                                                        ; CODE XREF: 0000:0FB3<sup>†</sup>j
                            loc_0_FCB:
                                                       1d
                                                                    a, c
0x28
                                                                                                                                          level type
                                                       rst
                                                                                                                                        ; go!
OFCC
OFCD 00 00
                                                        .dw RESET
                                                                                                                                       ; Jump table
                                                       .dw RESET
.dw init_l1_girder
.dw init_l2_cement
.dw init_l3_elevator
.dw init_l4_rivets
0FCF D7 0F
0FD1 1F 10
0FD3 87 10
0FD5 31 11
0FD7
0FD7
```

```
; DATA XREF: 0000:0FCF1o
0FD7
                                      init_l1_girder:
                                                                                           hl, #top_barrel_spr
de, #soft_sprite_ram+0xA8
bc, #0x10
0FD7 21 DC 3D
0FDA 11 A8 69
0FDD 01 10 00
0FE0 ED B0
                                                                         ld
ld
ldir
                                                                                                                                                                                    ; sprite #42, Y coord
; data for 4 sprites
; init
OFE2 21 EC 3D
OFE5 11 07 64
OFE8 0E 1C
OFEA 06 05
                                                                                           hl, #fireball_spr
                                                                          1d
                                                                         ld
ld
ld
                                                                                           de, #unk_0_6407
c, #0x1C
b, #5
                                                                                                                                                                                    ; offset of each sprite
; do 5 sprites
OFEA 06 05
OFEC CD 2A 12
OFEF 21 F4 3D
OFF5 2 D FA 11
OFF5 2 D FA 11
OFF5 2 D 00 3E
OFF8 11 FC 69
OFFB D 00
OFFE ED B0
1000 21 0C 3E
1003 CD A6 11
1006
1006
1006
21 1B 10
                                                                                           b, #5
init_data_for_B_sprites
hl, #girders_fireball_spr
init_fireball_sprite
hl, #girder_oil_barrel_spr
de, #soft_sprite_ram+0xFC
bc, #4
                                                                         call
ld
call
ld
                                                                         ld
ld
ldir
                                                                                                                                                                                    ; sprite #63
; 1 sprite only
; init sprite
                                                                                           hl. #girder hammer locs
                                                                          ld
                                                                         call
                                                                                           init_hammer_sprites
                                     loc_0_1006:
1006
1006 21 1B 10
1009 11 07 67
100C 01 1C 08
100F CD 2A 12
1012 11 07 68
1015 06 02
1017 CD 2A 12
101A C9
                                                                          ld
                                                                                           hl, #barrel_init_data
                                                                                           de, #unk_0_6707
bc, #0x81C
init_data_for_B_sprites
                                                                          ld
                                                                         ld
call
ld
                                                                                                                                                                                    ; 8 sprites, offset $1C
                                                                                           de, #unk_0_6807
b. #2
                                                                         ld
call
                                                                                           b, #2
init_data_for_B_sprites
                                                                                                                                                                                    ; 2 sprites to copy
                                                                         ret
101B 00 00 02 02 barrel_init_data:.db 0, 0, 2, 2
101F ;
101F
                                                                                                                                                                                    ; DATA XREF: 0000:1006\(\)o
                                      \verb"init_l2_cement":
                                                                                                                                                                                    ; DATA XREF: 0000:0FD1 o
101F 21 EC 3D 1022 11 07 64 1025 01 1C 05
                                                                                           hl, #fireball_spr
de, #unk_0_6407
bc, #0x51C
                                                                          ld
1025 01 1C 05
1028 CD 2A 12
1028 CD 2A 12
1028 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 01 1FC 69
1055 01 04 00
1058 ED B0
105A 2D 1C 3E
105D 11 44 69
1060 01 08 00
1063 ED B0
                                                                          ld
                                                                                                                                                                                    ; 5 sprites, offset 0x1c
                                                                         call
call
ld
                                                                                           init_data_for_B_sprites
init_spring_sprites
hl, #cement_pie_spr
de, #unk_0_65A7
                                                                          ld
                                                                         ld
call
ld
ld
                                                                                                                                                                                    ; 6 sprites, offset 0x0c
                                                                                           bc, #0x60c
init_data_for_B_sprites
ix, #unk_0_65A0
hl, #soft_sprite_ram+0xB8
de, #0x10
b, #6
                                                                                                                                                                                    ; sprite #46-51
; offset 0x10
; 6 sprites to init
                                                                          ld
ld
                                                                                           b, #6
set_B_sprites_data
hl, #cement_fireball_spr
init_fireball_sprite
hl, #cement_oil_barrel_spr
de, #soft_sprite_ram+0xFC
                                                                         call
ld
                                                                          call
                                                                          1d
                                                                                                                                                                                    ; sprite #63
                                                                         ld
ldir
                                                                                                                                                                                    ; init oil barrel sprite
                                                                                           hl, #cement_ladder_spr
                                                                          ld
                                                                         ld
ld
ldir
                                                                                           de, #soft_sprite_ram+0x44
bc, #8
                                                                                                                                                                                    ; sprite #17-18
; 8 bytes = 2 sprits
105D 11 44 69
1060 01 08 00
1063 ED B0
1065 21 24 3E
1068 11 E4 69
106B 01 18 00
106E ED B0
1070 21 10 3E
                                                                                           hl, #cement_conveyor_spr
                                                                          ld
                                                                         ld
ld
ldir
                                                                                           de, #soft_sprite_ram+0xE4
bc, #0x18
                                                                                                                                                                                    ; sprite #57-62
; 0x18 bytes = 6 sprites
106B C
106E ED BU
1070 21 10 3E
1073 CD A6 11
1076 21 3C 3E
11 0C 6A
                                                                                                   #cement_hammer_locs
                                                                          ld
                                                                         call
ld
ld
                                                                                           init_hammer_sprites
hl, #cement_obj_spr
de, #soft_sprite_ram+0x10C
1076 21 3C
1076 21 3C
1079 11 0C
107C 01 0C
107F ED B0
           21 3C 3E
11 0C 6A
01 0C 00
                                                                                                                                                                                    ; hat, purse & umbrella
; sprites #67-69
; 12 bytes = 3 sprites
                                                                          ld
                                                                                           bc, #0xC
                                                                          ldir
           3E 01
32 B9 62
                                                                          ld
ld
                                                                                           a, #1
(unk_0_62B9), a
1086 C9
                                                                          ret
1087
1087
1087
                                                                                                                                                                                   ; DATA XREF: 0000:0FD310
                                     init_13_elevator:
1087 21 EC 3D
108A 11 07 64
108D 01 1C 05
1090 CD 2A 12
                                                                                           hl, #fireball_spr
de, #unk_0_6407
bc, #0x51C
init_data_for_B_sprites
                                                                          1d
                                                                         ld
ld
                                                                                                                                                                                    ; 5 sprites, offset 0x1c
                                                                          call
1093 CD 86 11
1096 21 00 66
1099 11 10 00
109C 3E 01
                                                                         call
ld
ld
                                                                                           init_gata_lor_B_spri
init_spring_sprites
hl, #unk_0_6600
de, #0x10
                                                                          ld
                                                                                           a, #1
b, #6
109E 06 06
10A0
10A0
                                                                          ld
                                     loc_0_10A0:
                                                                                                                                                                                    ; CODE XREF: 0000:10A2|j
10A0 77
                                                                         ld
                                                                                            (hl).
                                                                                                        а
10A0 77
10A1 19
10A2 10 FC
10A4 0E 02
10A6 3E 08
                                                                         add
djnz
                                                                                           hl, de
loc_0_10A0
                                                                          ld
ld
                                                                                           c, #2
a, #8
10A8
10A8
                                                                                                                                                                                    ; CODE XREF: 0000:10B4|j
                                     loc_0_10A8:
10A8 06 03
                                                                                           b, #3
hl, #unk_0_660D
                                                                          ld
10AA 21 0D 66
                                                                         1d
10AD
10AD
10AD 77
                                     loc_0_10AD:
                                                                                                                                                                                    ; CODE XREF: 0000:10AF|j
                                                                                           (hl), a
hl, de
loc_0_10AD
                                                                          ld
10AE 19
10AF 10 FC
10B1 3E 08
10B3 0D
                                                                          add
                                                                          djnz
ld
                                                                                           a, #8
                                                                          dec
10B4 OD

10B4 C2 A8 10

10B7 21 64 3E

10BA 11 03 66

10BD 01 0E 06

10C0 CD EC 11

10C3 21 60 3E

10C6 11 07 66

10C9 01 0C 06
                                                                          jp
ld
ld
                                                                                           NZ, loc_0_10A8
hl, #elevator_spr_locs
de, #unk_0_6603
bc, #0x60E
                                                                          ld
                                                                                                                                                                                    ; 6 sprites, offset #0x0c
                                                                          call
ld
                                                                                           init_objects_locations
hl, #elevator_spr
de, #unk_0_6607
bc, #0x60C
                                                                          ld
ld
                                                                                                                                                                                    ; 6 sprites, offset 0x0c
10CC CD 2A 12
10CF DD 21 00 66
10D3 21 58 69
10D6 06 06
10D8 11 10 00
10DB CD D3 11
                                                                                           init_data_for_B_sprites
ix, #unk_0_6600
hl, #soft_sprite_ram+0x58
                                                                          call
ld
                                                                                                                                                                                     ; sprites #22-27
                                                                          ld
                                                                          ld
ld
                                                                                           b, #6
de, #0x10
set_B_sprites_data
                                                                                                                                                                                     ; 6 sprites
; offset 0x10
                                                                          call
10DE 21 48 3E
10E1 11 0C 6A
                                                                                           hl, #elevator_obj_spr
de, #soft_sprite_ram+0x10C
                                                                                                                                                                                    ; hat, purse & umbrella
; sprites 67-69
                                                                          1d
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
 10E4 01
               0C 00
                                                                               bc, #0xC
                                                                                                                                                            ; 0x0c bytes = 3 sprites
10E7 ED B0
10E9 DD 21 00 64
10ED DD 36 00 01
10F1 DD 36 03 58
10F5 DD 36 05 58
10F9 DD 36 05 80
10FD DD 36 05 80
10FD DD 36 20 11
105 DD 36 23 EB
1109 DD 36 25 60
1111 DD 36 25 60
1111 DD 36 25 60
1115 11 70 69
1118 21 21 11
111B 01 10 00
111E ED B0
         ED B0
 10E7
                                                                ldir
                                                                               ix, #unk_0_6400

0(ix), #1

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

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

5(ix), #0x80; 'C'

0xF(ix), #0x80; 'C'

0x20(ix), #1

0x23(ix), #0xEB; 'Ŭ'

0x25(ix), #0xEB; 'Ŭ'

0x25(ix), #0x60; '''

0x2F(ix), #0x60; '''

0x2F(ix), #0x60; ''''
                                                                ld
ld
ld
                                                                                                                                                           ; fireball character data
                                                                ld
                                                                ld
ld
ld
ld
ld
ld
                                                                                                                                                            ; 2nd fireball
                                                                ld
ld
ld
                                                                               de, #soft_sprite_ram+0x70
hl, #elevator_cap_spr
bc, #0x10
                                                                                                                                                           ; sprite #28-31
                                                                                                                                                            ; 0x10 bytes = 4 sprites
                                                                ldir
1131
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
1143 21 54 3E
1146 11 0C 6A
1149 01 0C 00
114C ED B0
114E 21 82 11
1151 11 A3 64
1157 CD EC 11
115A 21 7E 11
115A 21 7E 11
115D 11 A7 64
1160 01 1C 02
1163 CD 2A 12
1166 DD 2A 12
1166 DD 2A 16
1168 DD 36 00 01
116E DD 36 20 01
1172 21 50 69
                                                                                                                                                            ; DATA XREF: 0000:0FD510
                                 init_14_rivets:
 1131
                                                               ld
ld
                                                                               hl, #rivet_fireball_spr
de, #unk_0_6407
                                                                                                                                                            ; 5 sprites, offset 0x0c
                                                                ld
                                                                               bc, #0x51C
                                                                call
                                                                               init_data_for_B_sprites
                                                                               init_data_for_B_sprites
hl, #rivet_hammer_locs
init_hammer_sprites
hl, #rivet_obj_spr
de, #soft_sprite_ram+0x10C
bc, #0xC
                                                                ld
call
ld
                                                                ld
ld
ldir
                                                                                                                                                            ; sprite #67-69
; 0x0c bytes = 3 sprites
                                                                               hl, #rivet_unk_obj_locs
de, #unk_0_64A3
bc, #0x21E
init_objects_locations
                                                                1d
                                                                ld
ld
call
ld
                                                                                                                                                            ; 2 sprites, offset 0x20
                                                                               hl, #rivet_unk_sprites
de, #unk_0_64A7
bc, #0x21C
init_data_for_B_sprites
                                                                ld
ld
                                                                                                                                                            ; 2 sprites, offset $20
                                                                call
ld
                                                                               ix, #unk_0_64A0
0(ix), #1
0x20(ix), #1
                                                                ld
ld
                                                                              hl, #soft_sprite_ram+0x50
b, #2
de, #0x20; ' '
set_B_sprites_data
116E DD 36 20
1172 21 50 69
1175 06 02
1177 11 20 00
117A CD D3 11
117D C9
                                                                                                                                                            ; sprite #20-21
; 2 sprites
; offset 0x20
                                                                ld
                                                                14
                                                                ld
call
                                                               ret
117D ;
117E 3F 0C 08 08 rivet_unk_sprites:.db 0x3F, 0xC, 8, 8
                                                                                                                                                            ; DATA XREF: 0000:115A\(\text{transparent squares over kong's legs}\); DATA XREF: 0000:114E\(\text{to}\)
 1182 73 50 8D 50 rivet_unk_obj_locs:.db 0x73, 0x50, 0x8D, 0x50
                                                       SUBROUTINE ...
 1186
1186
1186
1186 21 A2 11
                                                                                                                                                            ; CODE XREF: 0000:102B<sup>†</sup>p; 0000:1093<sup>†</sup>p
                                 init_spring_sprites:
                                                                ld
                                                                               hl, #elevator_bouncing_spr
de, #unk_0_6507
 1186
 1189 11 07 65
                                                                ld
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
                                                                               de, #unk_0_6507
bc, #0xA0C
init_data_for_B_sprites
ix, #unk_0_6500
hl, #soft_sprite_ram+0x80
b, #0xA
de, #0x10
                                                                ld
call
                                                                ld
ld
                                                                                                                                                          ; sprites 20-29
                                                                ld
ld
119E CD D3 11
11A1 C9
11A1
11A1
                                                                call
                                                                               set_B_sprites_data
                                 ret; End of function init_spring_sprites
 11A1
11A2
                                                                                                                                                            ; DATA XREF: init_spring_sprites o
          3B 00 02 02 elevator_bouncing_spr:.db 0x3B, 0, 2, 2
                                         SUBROUTINE
 11A6
11A6
11A6
11A6
11A6
11A6 11 83 66
                                                                                                                                                            ; CODE XREF: 0000:1003\p; 0000:1073\p ...
                                init_hammer_sprites:
11A6 11 83 66
11A9 01 0E 02
11AC CD EC 11
11AF 21 08 3E
11B2 11 87 66
11B5 01 0C 02
                                                                               de, #unk_0_6683
bc, #0x20E
init_objects_locations
                                                                                                                                                            ; object XPOS
; 2 sprites, offset=14
                                                                call
                                                                               h1, #hammer_pickup_spr
de, #unk_0_6687
bc, #0x20C
                                                                ld
 11B2
11B5
11B8
                                                                ld
ld
                                                                                                                                                            ; object tile
; 2 sprites, offset inc=0x0C
                                                                              mc, #UXZUC
init_data_for_B_sprites
ix, #unk_0_6680
0(ix), #1
0x10(ix), #1
h, #soft_sprite_ram+0x118
b, #2
do #0x10
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

11CA 06 02

11CC 11 10 00

11CF CD D3 11

11D2 C9
                                                                call
ld
                                                                ld
ld
ld
                                                                                                                                                           ; sprite #70
                                                                1d
                                                                                       #0×10
                                                                ld
                                                                call
                                                                               set_B_sprites_data
                                                                ret
11D2
11D2
11D3
                                 ; End of function init_hammer_sprites
                                 ; SUBROUTINE
 11D3
11D3
11D3
11D3
                                                                                                                                                                CODE XREF: 0000:10461p
                                 set B sprites data:
 11D3 DD 7E 03
                                                                                                                                                            ; 0000:10DB1p .
                                                                               a, 3(ix)
(hl), a
         77
2C
                                                                 ld
                                                                                                                                                            ; set sprite X
                                                                               1
a. 7(ix)
                                                                inc
ld
 11D8 DD 7E 07
                                                                ld
                                                                                (hl), a
                                                                                                                                                            ; set sprite tile
                                                                               a, 8(ix)
 11DD DD 7E 08
                                                                ld
 11E0
11E1
                                                                ld
inc
ld
                                                                                (hl), a
                                                                                                                                                            ; set sprite vflip/palette
                                                                                  , 5(ix)
 11E2 DD 7E 05
                                                                               a, 5(ix
(hl), a
 11E5 77
11E6 2C
                                                                1d
                                                                                                                                                            ; set sprite Y
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
 11E7 DD 19
11E9 10 E8 11EB C9 11EB 11EB 11EC
                                        add
                                                  set B sprites data
                                        dinz
                     ret
; End of function set_B_sprites_data
 11EC
11EC
11EC
11EC
                                     SUBROUTINE
11EC
11EC 7E
11EC
11ED 12
                     init objects locations:
```

a, (hl) (de), a

(hl)

e, a init\_objects\_locations

ix, #unk\_0\_66A0
de, #soft\_sprite\_ram+0x128
0(ix), #1
a, (h1)
3(ix), a
(de), a

(de), a

a, e

a. c

SUBROUTINE

e hl

a, (hl) 7(ix), a (de), a

e hl a, (hl)

a, (hl) 8(ix), a (de), a

e hl a, (hl) 5(ix), a (de), a

hl a, (hl) 9(ix), a

hl a, (hl)

SUBROUTINE

hl

hl

a, e

0x18

a, (level\_type)
#3

ix, #mario\_alive\_flag

1 7(ix), #0x80; 'Ç' (h1), #0x80; 'Ç'

hl, #main\_sequencer

hl, #soft\_sprite\_ram+0x4C 0(ix), #1 3(ix), c

bc, #0xE016 Z, loc\_0\_124B

bc, #0xF03F

(hl), c

8(ix), #2 (hl), #2

5(ix), b (h1), b 0xF(ix), #1

bc b, #4

a, (h<sub>1</sub>, (de), a

loc\_0\_122E

init\_data\_for\_B\_sprites

0xA(ix), a

hl

e

ld

inc inc

ld

ld inc ld

add

djnz ret

; End of function init\_objects locations

1d

1d ld ld

ld

ld ld

inc

inc ld ld ld

inc

inc

ld ld inc inc

ld

ld ld

inc

1d

ld

ld

1d

init\_data\_for\_B\_sprites:

loc\_0\_122E:

init\_mario:

loc\_0\_124B:

ret; End of function init\_fireball\_sprite

push

push ld

ld inc inc

djnz pop

pop ld

add

djnz

; End of function init\_data\_for\_B\_sprites

ret

rst

1d cp ld

jp ld

ld ld ld ld

ld

inc

ld inc ld ld

inc

ld ld ld

1d

init\_fireball\_sprite:

11ED 12 11EE 23 11EF 1C 11F0 1C 11F1 7E 11F2 12 11F3 23 11F4 7B 11F5 81 11F6 5F 11F7 10 F3 11F9 C9

11F9 11F9 11FA

11FA 11FA

11FA 11FA DD 21 A0 66

11FA L 11FA 11FE 11 28 6A 1201 DD 36 00 01 1205 7E 77 03

1206 DD 77 03 1209 12 120A 1C

120D DD 77 07

1214 DD 77 08 1217 12

121B DD 77 05 121E 12 121F 23

1221 DD 77 09 1224 23 1225 7E

1226 DD 77 OA 1229 C9 1229

120B 23

1210 12 1211 1C

121A

122A

122A 122A 122A E5 122A

122E

122E 7E 122F 12 1230 23 1231 1C

123C 123D 3A 27 62 1240 FE 03 1242 01 16 E0 1245 CA 4B 12

1248 01 3F F0

124B DD 21 00 62 124F 21 4C 69 1252 DD 36 00 01 1256 DD 71 03

125A 2C 125B DD 36 07 80

36 80 2C 125F

1262 DD 36 08 02 1266 36 02 1268 2C

1269 DD 70 05 126C 70 126D DD 36 0F 01

1271 21 0A 60 1274 34

123B C9

123B 123B

123C 123C 123C 123C DF 123C

1259

122B C5 122C 06 04 122E

```
; next sprite data address
; CODE XREF: 0000:10C0\p; 0000:1157\p ...
; copy byte 1
; next source byte
; skips destination byte
; copy byte 2
; next source byte
; add offset to destination
; loop B times
; CODE XREF: 0000:0FF2<sup>p</sup>; 0000:104C<sup>p</sup>
; sprite #74
; Y pos
; sprite Y pos
; next sprite register
; next data byte
; flipy,tile
; sprite flipy,tile
; next sprite register
; next data byte
; flipx,colour
; sprite flipx,colour
; next sprite register
; next data byte
; X pos
; sprite X pos
; next data byte
; next data byte
; CODE XREF: 0000:0FEC\uparrow p; 0000:100F\uparrow p ...
; 4 bytes/sprite
; CODE XREF: init_data_for_B_sprites+8|j
; copy data for 1 sprite
; restore source
; next destination
; do B sprites
; DATA XREF: 0000:0718 o
; 0000:074C\rac{1}{0}; wait for 8-bit countdown
; elevators?
   mario x,y coords
yes, skip
; mario x,y coords
; CODE XREF: 0000:1245<sup>†</sup>j
; sprite #19, y coord
; flag mario is alive
; 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
```

; next sequence (3)

```
1275 11 01 06
1278 CD 9F 30
                                                                             de, #0x601
                                                                                                                                                         ; display_lives_and_level
                                                               ld
                                                                             queue_fg_vector_fn
                                                               call
 1276 CD
127B C9
127C
127C
127C
127C CD BD 1D
                                                                                                                                                         ; DATA XREF: 0000:071C\u00f30
                                died_in_gameplay:
                                                               call
                                                                             sub_0_1DBD
                                                                             a, (unk_0_639D)
0x28
         3A 9D 63
                                                               ld
 1282 EF
                                                               rst
                                                                                                                                                         ; qo!
         8B 12
AC 12
                                                               .dw delay_before_spin
                                                                                                                                                         ; Jump Table
 1285
                                                               .dw mario_death_spin
         DE 12
                                                               .dw dead_mario_lying_down
1289
128B
128B
                                delay_before_spin:
rst
ld
                                                                                                                                                         ; DATA XREF: 0000:1283\u00e9o
; wait for 8-bit countdown
 128B
128B
128B DF
128C 21 4D 69
128F 3E F0
1291 CB 16
1293 1F
1294 77
                                                                             0x18
hl, #soft_sprite_ram+0x4D
a, #0xF0; '-'
                                                               ld
                                                                                                                                                         ; mario sprite << 1
                                                               rl
                                                                             (hl)
                                                                             (hl), a
hl, #unk_0_639D
(hl)
1294 77
1295 21 9D 63
1298 34
1299 3E 0D
129B 32 9E 63
129E 3E 08
12A0 32 09 60
12A3 CD BD 30
12A6 3E 03
12A8 32 88 60
12AB C9
12AC
12AC
12AC
                                                               ld
                                                               ld
                                                               inc
                                                                             (unk_0_639E), a
                                                               ld
ld
                                                              ld
call
ld
                                                                             (eight_bit_countdown), a sub_0_30BD
                                                                             (music_something), a
                                                               ld
12AC
12AC DF
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
                                                                                                                                                         ; DATA XREF: 0000:1285\u00e9o
; wait for 8-bit countdown
                                mario_death_spin:
                                                              rst
ld
                                                                             0x18
a, #8
                                                                             a, #8
(eight_bit_countdown), a
h1, #unk_0_639E
(h1)
                                                               ld
                                                              ld
dec
                                                                             Z, loc_0_12CB
hl, #soft_sprite_ram+0x4D
a, (hl)
                                                               jp
ld
                                                               ld
rra
12BD 1F
12BE 3E 02
12C0 1F
12C1 47
12C2 AE
12C3 77
12C4 2C
12C5 78
12C6 E6 80
                                                                             a, #2
                                                               1d
                                                               rra
ld
                                                                             b, a
                                                               xor
                                                                              (hl), a
                                                               ld
inc
                                                                             a, b
#0x80; 'Ç'
                                                               ld
                                                                                                                                                        ; flip mario upside down?
                                                               and
 12C8 AE
12C9 77
12CA C9
12CB
                                                               xor
                                                                              (h1)
                                                               ld
                                                                              (hl), a
                                                               ret
12CB
12CB
12CB
loc_0_12CB:
                                                                                                                                                         ; CODE XREF: 0000:12B6 j
                                                                             hl, #soft_sprite_ram+0x4D
                                                               ld
rl
                                                                             a, #0xF4; (h1)
                                                               rra
ld
                                                                             hl, #unk_0_639D
(hl)
                                                               ld
inc
                                                                             (hl)
a, #0x80 ; 'Ç'
(eight_bit_countdown), a
                                                               ld
ld
 12DD C9
                                                               ret
12DE
12DE
12DE
                                                                                                                                                         ; DATA XREF: 0000:1287 o ; wait for 8-bit countdown
                                dead_mario_lying_down:
12DE 12DE DF 12DF CD DB 30 12E2 21 0A 60 12E5 3A 0E 60 12E8 A7 12ED CA ED 12 12EC 34 12ED
                                                              rst
call
                                                                             0×18
                                                                             sub_0_30DB
hl, #main_sequencer
a, (current_player_E)
                                                               ld
                                                                                                                                                         ; player 1?
; yes, skip
                                                               and
                                                               jp
inc
                                                                             Z, loc_0_12ED (hl)
12ED
12ED
12EE
                                loc_0_12ED:
                                                                                                                                                         ; CODE XREF: 0000:12E9<sup>†</sup>j
 12ED 34
12EE 2B
12EF 36 01
                                                                              (hl)
                                                                             (hl), #1
                                                               1d
 12F1 C9
12F2
12F2
12F2
                                copy_current_lvl_data_to_P1:
                                                                                                                                                        ; DATA XREF: 0000:071E o
12F2 CD 1C 01 12F5 AF 12F6 32 CC 62 12F9 21 28 62 12FC 35 12FF 11 40 60 1301 01 08 00 1304 ED BO
                                                              call
                                                                              stop_sound
                                                                               (unk_0_622C)
                                                               ld
                                                              ld
dec
                                                                             hl, #lives_left (hl)
                                                                             a, (hl)
de, #p1_level_data
                                                               ld
1301 01 08
1304 ED B0
1306 A7
1307
                                                               1d
                                                                             bc, #8
                                                                             а
                                                               and
1307 C2 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
131B 11 02 03
131E CD 9F 30
 1307
                                loc_0_1307:
                                                                             NZ, loc_0_1334
                                                               jp
ld
                                                                            ..., roc_0_1334
a, #1
hl, #pl_score
sub_0_13CA
hl, #VRAM_start+0x2D4
a, (two_players)
a
                                                               ld
                                                               call
ld
                                                               ld
                                                               and
                                                               jr
ld
                                                                             Z, loc_0_1322
de, #0x302
                                                                                                                                                        ; display_message_02
 131E
1321
1322
1322
         CD
               9F 30
                                                               call
                                                                             queue_fg_vector_fn
         2В
                                                                                                                                                         ; CODE XREF: 0000:1319<sup>†</sup>j
                                loc_0_1322:
 1322 CD 26 18
                                                                             \begin{array}{l} \texttt{clear\_14x5\_HL} \\ \texttt{de, \#0x300} \end{array}
                                                               call
 1325 11 00 03
                                                                                                                                                         ; display_message_00
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
1328 CD 9F 30
                                                           call
                                                                         queue_fg_vector_fn
1328 CD 9F 30
132B 21 09 60
132E 36 C0
1330 23
1331 36 10
1333 C9
1334
1334
1334
1334
1334 0E 08
1336 3A 0F 60
1339 A7
133A CA 3F 13
133D 0E 17
                                                                         hl, #eight_bit_countdown (hl), #0xC0; 'L' hl (hl), #0x10
                                                           ld
                                                          ld
inc
                                                           ret
                              loc_0_1334:
                                                                                                                                                ; CODE XREF: 0000:1307†j
                                                           ld
                                                                         c, #8
a, (two_players)
                                                          ld
and
                                                                         a
Z, loc_0_133F
                                                           jp
ld
133D 0E 17
133F
133F
133F 79
                                                                              #0x17
                                                                                                                                                ; CODE XREF: 0000:133A^j
                              loc_0_133F:
                                                           ld
1340 32 0A 60
1343 C9
1344
                                                           ld
                                                                         (main_sequencer), a
1344
1344
1344
1347
                              ; DATA XREF: 0000:0720 o
        CD 1C 01
                                                                         stop_sound
xor
                                                                          (unk 0 622C).
                                                           ld
                                                                        (unk_0_622C), a
hl, #lives_left
(hl)
a, (hl)
de, #p2_level_data
bc, #8
                                                          ld
dec
ld
                                                           ld
                                                           ld
ldir
                                                           and
                                                                        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_countdo
                                                          jp
ld
ld
                                                           call
                                                          ld
call
ld
                                                                                                                                                ; display_message_03
                                                                                                                                                ; display_message_00
                                                          call
ld
call
ld
                                                                         hl, #eight_bit_countdown (hl), #0xC0; 'L'
                                                           ld
                                                                         hl
(hl), #0x11
                                                           inc
ld
                                                           ret
                                                                                                                                                 ; CODE XREF: 0000:1359<sup>†</sup>j
                              loc_0_137F:
                                                                         c, #0x17
a, (p1_level_data)
                                                           ld
                                                                                                                                                 ; set to switch players?
                                                          ld
and
                                                                         NZ, loc_0_138A
                                                           jp
ld
1388 OE 08
138A
138A
138A
                                                                                                                                                ; CODE XREF: 0000:1385<sup>†</sup>j
                               loc_0_138A:
                                                           ld
138B 32
138E C9
138F
138F
        32 OA 60
                                                           1d
                                                                         (main_sequencer), a
                                                                                                                                                ; DATA XREF: 0000:0722\daggero ; wait for 8-bit countdown
138F
                              p1_game_over:
138F DF
1390 0E 17
1392 3A 48 60
1395
1395
1395 34
                                                                         0x18
c, #0x17
a, (p2_level_data)
                                                           ld
                              loc_0_1395:
                                                                                                                                                ; CODE XREF: 0000:13A7|j
                                                           inc
and
                                                                         (hl)
1395 34
1396 A7
1397 C2 9C 13
139A 0E 14
139C 139C
139C 79
139D 32 0A 60
13A0 C9
                                                                         a
NZ, loc_0_139C
c, #0x14
                                                                                                                                                ; CODE XREF: 0000:1397<sup>†</sup> †
                              loc_0_139C:
                                                          ld
ld
                                                                         (main_sequencer), a
                                                           ret
13A0 C9

13A1

13A1

13A1

13A1 DF

13A2 0E 17

13A4 3A 40 60

13A7 C3 95 13
                                                                                                                                                 ; DATA XREF: 0000:0724<sup>†</sup>o ; wait for 8-bit countdown
                              p2_game_over:
                                                           rst
                                                                         c, #0x17
a, (p1_level_data)
loc_0_1395
                                                          ld
ld
13AA C3 95 13
13AA 13AA 13AA 13AA 13AA 13AA 34 26 60
13AD 32 82 7D
13BO AF 13B1 32 0A 60
13B4 21 01 01
13B7 22 0D 60
13BA C9
13BB 13BB 13BB 13BB
                                                           qŗ
                                                                                                                                                ; DATA XREF: 0000:0726 o
                               set_flip_and_current_P2:
                                                                         a, (upright)
(flipscreen), a
                                                          ld
ld
                                                           xor
ld
                                                                          (main_sequencer), a
                                                                                                                                                 ; reset ingame sequencer
                                                           ld
                                                                         (current_player_D), hl
                                                                                                                                                ; both current player flags to P2 \,
                                                           1d
13BB
13BB AF
13BC 32 0D 60
13BF 32 0E 60
13C2 32 0A 60
13C5 3C
13C6 32 82 7D
13C9 C9
                                                                                                                                                ; DATA XREF: 0000:0728†o
                               set_flip_and_current_P1:
                                                          xor
ld
                                                                         (current_player_D), a
                                                                                                                                                 ; player 1
                                                                                                                                                 ; player 1
; reset ingame sequencer
; default flipscreen
                                                           ld
                                                                         (current_player_E), a
(main_sequencer), a
                                                          ld
inc
ld
                                                                         (flipscreen), a
                                                          ret
13CA
13CA
13CA
13CA
                                                           SUBROUTINE
13CA
13CA 11 C6 61
                              sub_0_13CA:
                                                                                                                                                ; CODE XREF: 0000:130f<sup>p</sup>; 0000:1361<sup>p</sup>
13CA 11 C6 61
13CA
13CD 12
13CE CF
13CF 13
13D0 01 03 00
```

ld

ld rst

1d

ldir

13D3 ED B0

de, #unk\_0\_61C6

; return if attract mode

(de), a

de bc. #3

```
13D5 06 03
13D7 21 B1 61
                                                                    b, #3
hl, #unk_0_61B1
                                                       ld
13DA
13DA
13DA 1B
                           loc_0_13DA:
                                                                                                                                      ; CODE XREF: sub_0_13CA+1F|j
13DB 1A
13DC 0F
13DD 0F
13DE 0F
                                                                    a, (de)
                                                       ld
                                                       rrca
rrca
                                                       rrca
                                                      rrca
and
ld
13DF
13E0 E6 OF
13E2 77
13E3 23
                                                                    (hl), a
                                                       inc
                                                                    hl
                                                                    a, (de)
#0xF
13E4 1A
13E5 E6 OF
13E7 77
13E8 23
                                                      ld
and
ld
                                                                     (hl), a
13E9 10 EF
13EB 06 0E
13ED
                                                                    loc_0_13DA
b, #0xE
                                                      djnz
ld
loc_0_13ED:
                                                                                                                                     ; CODE XREF: sub 0 13CA+26 i
                                                                    (hl), #0x10
hl
loc_0_13ED
                                                      ld
inc
                                                       djnz
                                                                    (h1), #0x3F; '?'
b, #5
h1, #hs_tbl_5th+0x1D
                                                       1d
                                                       ld
ld
                                                       ld
                                                                    de, #unk_0_61C7
                            loc_0_13FC:
                                                                                                                                     ; CODE XREF: sub_0_13CA+51|j
                                                       ld
                                                                    a, (de)
(hl)
                                                       sub
                                                       inc
inc
ld
                                                                    hl
de
                                                                    a,
a,
hl
                                                                         (h1)
                                                       sbo
                                                       inc
inc
ld
                                                                    a, (de)
a, (hl)
                                                       sbc
                                                      ret
push
ld
                                                                    b, #0x19
                            loc_0_140A:
                                                                                                                                     ; CODE XREF: sub_0_13CA+47|j
                                                      ld
ld
ld
ld
                                                                    a, (de)
(hl), a
                                                                    a, c
(de), a
                                                       dec
dec
                                                                    hl
                                                                    de
loc_0_140A
                                                      djnz
ld
                                                                    bc, #0xFFF5
hl, bc
                                                       add
                                                                    de, hl
hl, bc
de, hl
                                                      ex
add
                                                       ex
loc_0_13FC
                            ; End of function sub_0_13CA
                                                                                                                                      ; DATA XREF: 0000:072A o
                            draw_name_registered:
                                                      call
rst
call
                                                                    display_credits
0x18
clear_visible_area_and_sprites
                                                                                                                                      ; wait for 8-bit countdown
                                                                   clear_visible_area_and_sprite
a, #0
(current_player_E), a
(current_player_D), a
hl, #high_score_tbl_ram+0x1C
de, #0x22; '"'
b, #5
a, #1
                                                       ld
                                                       ld
ld
ld
                                                                                                                                      ; player 1
; player 1
                                                       ld
                                                       ld
                            loc_0_1437:
                                                                                                                                      ; CODE XREF: 0000:143C-i
                                                                    (hl)
Z, loc_0_1459
hl, de
                                                       jр
                                                                   mi, de
loc_0_1437
hl, #high_score_tbl_ram+0x1C
b, #5
                                                       add
                                                      djnz
ld
                                                       ld
1441 06 05
1443 3E 03
1445
1445 BE
1446 CA 4F 14
1449 19
144A 10 F9
144C C3 75 14
                                                       ld
                                                                    a. #3
                            loc_0_1445:
                                                                                                                                      ; CODE XREF: 0000:144A|j
                                                                    (hl)
Z, loc_0_144F
hl, de
loc_0_1445
                                                      cp
jp
add
                                                       djnz
144C C3 75 14
144F
144F
144F
144F
144F 3E 01
1451 32 0E 60
1454 32 0D 60
1457 3E 00
1459
1459
1459
1459
1450 32 82 7D
1460 3E 00
1462 32 09 60
1462 32 09 60
1468 34
1469 11 0D 03
1462 E6
                                                                    loc_0_1475
                                                       jр
                            loc_0_144F:
                                                                                                                                      ; CODE XREF: 0000:1446 j
                                                       ld
                                                      ld
ld
ld
                                                                    (current_player_E), a (current_player_D), a
                                                                                                                                      ; player
; player
                                                                    a, #0
                            loc_0_1459:
                                                                                                                                      ; CODE XREF: 0000:1438 j
                                                                    hl, #upright (hl)
                                                       ld
                                                       or
                                                       ld
                                                                    (flipscreen), a
                                                       ld
ld
                                                                    ld
                                                                    hl, #main_sequencer (hl)
                                                                    de, #0x30D
b, #0xC
                                                       ld
ld
                                                                                                                                      ; display_message_0D
146E
146E
146E CD 9F 30
1471 13
1472 10 FA
1474 C9
                            loc_0_146E:
                                                                                                                                      ; CODE XREF: 0000:1472|j
                                                       call
                                                                    queue_fg_vector_fn
                                                                    loc_0_146E
                                                       dinz
```

```
1475
1475 3E 01
1477 32 82 7D
1477 32 82 7D
147A 32 05 60
147D 32 07 60
1480 3E 00
1482 32 0A 60
1485 C9
1486
1486
1486 1486
1475
                                   loc_0_1475:
                                                                                                                                                                           ; CODE XREF: 0000:144C<sup>†</sup> †
                                                                      ld
ld
ld
                                                                                       a, #1
(flipscreen), a
                                                                                       (nmi_sequencer), a
(attract_mode_flag), a
a, #0
                                                                      ld
ld
ld
                                                                                                                                                                           ; set attract mode flag
                                                                                       (main_sequencer), a
                                                                      ret
                                   do_initials_entry:
                                                                                                                                                                           ; DATA XREF: 0000:072C1o
1486 CD 16 06
1489 21 09 60
148C 7E
148D A7
                                                                      call
ld
ld
                                                                                      display_credits
hl, #eight_bit_countdown
a, (hl)
                                                                      and
148D A7
148E C2 DC 14
1491 32 86 7D
1494 32 87 7D
1497 36 01
1499 21 30 60
149E 23
149F 36 00
                                                                                      a

NZ, loc_0_14DC

(palette_bank), a

(palette_bank+1), a

(hl), #1

hl, #unk_0_6030

(hl), #0xA
                                                                      jp
ld
ld
                                                                      ld
                                                                      ld
ld
                                                                      inc
ld
                                                                                       (hl), #0
149F 36 00
14A1 23
14A2 36 10
14A4 23
14A5 36 1E
14A7 23
14A8 36 3E
14AA 23
                                                                      inc
ld
                                                                                      hl
(hl), #0x10
                                                                      inc
                                                                                       hl
                                                                      ld
inc
ld
                                                                                       (hl), #0x1E
                                                                                      hl
(hl), #0x3E; '>'
                                                                                       hl
                                                                      inc
14AA 23
14AB 36 00
14AD 21 E8 75
14B0 22 36 60
14B3 21 1C 61
                                                                                      hl (hl), #0
hl, #VRAM_start+0x1E8
(unk_0_6036), hl
hl, #high_score_tbl_ram+0x1C
a, (current_player_E)
                                                                      ld
ld
ld
                                                                      ld
14B6 3A 0E 60
14B9 07
14BA 3C
                                                                      ld
rlca
14BA 3C
14BB 4F
14BC 11 22 00
14BF 06 04
14C1
14C1
14C1 7E
14C2 8P
14C3 CA C9 14
14C6 19
14C7 10 F8
14C9
                                                                      inc
ld
                                                                                      c, a
de, #0x22; '"'
b, #4
                                                                      1d
                                                                                                                                                                           ; CODE XREF: 0000:14C7-i
                                    loc_0_14C1:
                                                                                      a, (hl)
                                                                      ld
                                                                      ср
                                                                                      Z, loc_0_14C9
                                                                      jp
add
                                                                                      hl, de
loc_0_14C1
                                                                      djnz
                                                                                                                                                                            ; CODE XREF: 0000:14C31j
14C9
                                    loc_0_14C9:
14C9 22 38 60
14CC 11 F3 FF
14CF 19
                                                                                      (unk_0_6038), hl
de, #0xFFF3
hl, de
                                                                      ld
                                                                                                                                                                            ; point to high score
                                                                      ld
add
14CF 19
14D0 22 3A 60
14D3 06 00
14D5 3A 35 60
14D8 4F
                                                                                      (unk_0_603A), hl
b, #0
a, (unk_0_6035)
                                                                      ld
ld
ld
                                                                      ld
14D8 4F
14D9 CD FA 15
14DC
14DC 21 34 60
14DF 35
                                                                      call
                                                                                       sub_0_15FA
                                                                                                                                                                           ; high score initial select sprite
                                    loc_0_14DC:
                                                                                                                                                                            ; CODE XREF: 0000:148E^j
                                                                                      hl, #unk_0_6034
(hl)
                                                                      ld
                                                                      dec
14DF 35
14E0 C2 FC 14
14E3 36 3E
14E5 2B
14E6 35
14E7 CA C6 15
14EA 7E
14EB 06 FF
                                                                                       NZ, loc_0_14FC (hl), #0x3E; '>'
                                                                      jp
ld
                                                                      dec
dec
                                                                                       hl
                                                                                      (h1)
Z, loc_0_15C6
a, (h1)
b, #0xFF
                                                                      jp
ld
                                                                      ld
14ED
14ED
14ED 04
                                                                                                                                                                           ; CODE XREF: 0000:14F0|j
                                    loc_0_14ED:
14ED 04
14EE D6 0A
14F0 D2 ED 14
14F3 C6 0A
14F5 32 52 75
14FC
14FC 21 30 60
14FF 46
14FF 46
1500 36 0A
1502 3A 10 60
1505 CB 7F
1507 C2 46 15
1508 E6 03
1507 C2 14 15
1507 77
1511 C3 8A 15
                                                                      inc
                                                                                      #0xA

NC, loc_0_14ED

a, #0xA

(VRAM_start+0x152), a
                                                                      sub
                                                                      jp
add
ld
                                                                      ld
                                                                                            b
                                                                                       a, b
(VRAM_start+0x172), a
                                                                                                                                                                           ; CODE XREF: 0000:14E01i
                                    loc 0 14FC:
                                                                                      h1, #unk_0_6030
b, (h1)
(h1), #0xA
a, (controller_in)
7, a
                                                                      ld
ld
ld
                                                                      ld
                                                                                                                                                                            ; edge-detected inputs
                                                                                                                                                                            ; button pressed?
; yes, skip
; left/right only
; yes, skip
                                                                      bit
                                                                                       7, a
NZ, jump_pressed
                                                                       and
                                                                                      NZ, left_right_pressed
                                                                      jp
inc
1510 77
1511 C3 8A 15
                                                                                       (hl), a
loc_0_158A
                                                                       ld
                                                                      jр
1514
1514
1514
1514
1514 05
                                    left_right_pressed:
                                                                                                                                                                            ; CODE XREF: 0000:150C↑j
                                                                      dec
1514 05
1515 CA 1D 15
1518 78
1519 77
                                                                      jp
ld
ld
                                                                                      Z, loc_0_151D
a, b
(hl), a
loc_0_158A
151A C3 8A 15
                                                                      jр
151D
151D
151D
                                                                                                                                                                           ; CODE XREF: 0000:1515<sup>†</sup>j
                                    loc 0 151D:
151D CB 4F
151F C2 39 15
1522 3A 35 60
1525 3C
1526 FE 1E
1528 C2 2D 15
152B 3E 00
                                                                                      1, a
NZ, loc_0_1539
a, (unk_0_6035)
                                                                      bit
                                                                      jp
ld
                                                                      inc
                                                                                       a
#0x1E
                                                                      ср
                                                                                       NZ, loc_0_152D
a, #0
152D
                                                                                                                                                                           ; CODE XREF: 0000:1528<sup>†</sup>j; 0000:153E<sup>†</sup>j ...
152D
                                    loc_0_152D:
152D
152D 32 35 60
152D
                                                                                       (unk_0_6035), a
                                                                      ld
1530 4F
                                                                      1d
                                                                                       c, a
b, #0
1531 06 00
```

```
1533 CD FA 15
                                                             call
                                                                            sub_0_15FA
1536 C3 8A 15
                                                                            loc 0 158A
                                                                                                                                                      ; CODE XREF: 0000:151f j
                                loc_0_1539:
                                                                            a, (unk_0_6035)
#1
1539 3A 35 60
153C D6 01
153E F2 2D 15
1541 3E 1D
1543 C3 2D 15
                                                             ld
                                                             sub
                                                             jp
ld
                                                                            P, loc_0_152D
                                                                            a, #0x1D
loc_0_152D
                                                             jр
1546
1546
1546
1546 1546 1546 FE 1C 1549 FE 1C 1548 CA 6D 15 1550 CA C6 15 1553 2A 36 60 1556 01 88 75 1559 A7 155A ED 42 155C CA 8A 15 155F 09 1560 C6 11 1562 77
                                                                                                                                                     ; CODE XREF: 0000:1507<sup>†</sup>j
                               jump_pressed:
                                                                            a, (unk_0_6035)
#0x1C
                                                             1d
                                                             cp
jp
                                                                            Z, loc_0_156D
#0x1D
                                                             cp
jp
ld
ld
                                                                            Z, loc_0_15C6
hl, (unk_0_6036)
bc, #VRAM_start+0x188
                                                             and
                                                             sbc
jp
add
                                                                            hl, bc
Z, loc_0_158A
hl, bc
a, #0x11
                                                                            a, #0x11
(h1), a
bc, #0xFFE0
h1, bc
                                                             add
1562 77
1563 01 E0 FF
                                                             ld
ld
 1566 09
1567
                                                             add
                               loc_0_1567:
                                                                                                                                                       ; CODE XREF: 0000:1583 j
1567 22 36 60
156A C3 8A 15
                                                                            (unk_0_6036), hl loc_0_158A
                                                             ld
                                                             jр
156D
156D
156D
                               loc_0_156D:
                                                                                                                                                       ; CODE XREF: 0000:154B†j
156D 2A 36 60
1570 01 20 00
1573 09
1574 A7
1575 01 08 76
1578 ED 42
157A C2 86 15
157D 21 E8 75
                                                                            hl. (unk 0 6036)
                                                             ld
                                                             ld
add
                                                                            bc, #0x20;
hl, bc
                                                             and
ld
                                                                            bc, #VRAM_start+0x208
                                                                            hl, bc
NZ, loc_0_1586
                                                              sbc
                                                             jp
ld
                                                                            hl, #VRAM_start+0x1E8
1580
1580
1580 3E 10
                               loc_0_1580:
                                                                                                                                                      ; CODE XREF: 0000:1587/j
                                                                            a, #0x10
(h1), a
loc_0_1567
                                                             ld
1583 C3 67 15
                                                             jр
1586
1586
                               loc_0_1586:
                                                                                                                                                       ; CODE XREF: 0000:157A j
1586
1586 09
1587 C3 80 15
158A
                                                                            hl, bc
loc_0_1580
                                                             add
                                                             jp
158A
158A
158A 21 32 60
158A
                               loc_0_158A:
                                                                                                                                                       ; CODE XREF: 0000:1511<sup>†</sup>j; 0000:151A<sup>†</sup>j ...
158A 158D 35 158E C2 F9 15 159E C2 F9 15 1595 C2 B8 15 1595 C2 B8 15 159A 32 31 60 159A 32 31 60 159A 12 BF 01 15AO 15AO FD 2A 38 60 15AF FD 66 05 15AA E5 15AB DD E1 15AO D 7C 05
                                                                            hl, #unk_0_6032
                                                             ld
                                                                            (hl)
NZ, locret_0_15F9
a, (unk_0_6031)
                                                             dec
                                                             jp
1d
                                                             and
                                                             jp
ld
ld
                                                                            NZ, loc_0_15B8
                                                                            a, #1
(unk_0_6031),
                                                                            de, #byte_0_1BD+2
                                                             ld
                                                                                                                                                      ; empty/dummy score
                                                                                                                                                      ; CODE XREF: 0000:15C3|j; ptr high score
                               loc_0_15A0:
                                                                           iy, (unk_0_6038)
1, 4(iy)
h, 5(iy)
h1
                                                             ld
                                                             ld
                                                             ld
push
                                                             pop
call
ld
ld
                                                                             ix
15AD CD 7C 05
15B0 3E 10
15B2 32 32 60
15B5 C3 F9 15
                                                                            display_score_HL
a, #0x10
(unk_0_6032), a
locret_0_15F9
                                                             jр
15B8
15B8
15B8
                               loc_0_15B8:
                                                                                                                                                      ; CODE XREF: 0000:1595<sup>†</sup>j
15B8 AF
                                                                            a
(unk_0_6031);
                                                             xor
15B9 32 31 60
15BC ED 5B 38 60
15C0 13
                                                             ld
ld
                                                                             de, (unk_0_6038)
                                                                                                                                                      ; point to high score
15C0 13
15C1 13
                                                             inc
                                                                            de
                                                                            de
                                                             inc
                                                                            de
loc_0_15A0
15C6
15C6
15C6 ED 5B 38 60
15C6
                                                                                                                                                       ; CODE XREF: 0000:14E7†j
                                                                                                                                                       ; 0000:1550 j
; point to high score
                                                             ld
                                                                            de, (unk_0_6038)
15CA AF
                                                             xor
ld
ld
ld
                                                                           (de), a
hl, #eight_bit_countdown
(hl), #0x80; 'C'
15CA AF
15CB 12
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
                                                                           (MI), #0x80 , \( \text{\text{h1}} \)
(h1) b, #0xC
h1, #VRAM_start+0x1E8
iy, (unk_0_603A)
de, #0xFFE0
                                                             inc
dec
ld
                                                             ld
                                                             ld
                                                                                                                                                      ; CODE XREF: 0000:15E6-i
15DF
                               loc_0_15DF:
15DF 7E 15E0 7E 70 00 15E3 FD 23 15E5 19 15E6 10 F7 15E8 06 05 15EB 11 14 03
                                                             ld
ld
                                                                            a, (hl)
0(iy), a
                                                                            iy
hl, de
                                                             add
                                                             djnz
ld
                                                                             loc_0_15DF
                                                                            de, #0x314
                                                                                                                                                      ; display_message_14
                                                             ld
15ED
15ED
15ED CD 9F 30
                               loc_0_15ED:
                                                                                                                                                      ; CODE XREF: 0000:15F1|j
                                                             call
                                                                            queue_fg_vector_fn
15F0 13
15F1 10 FA
                                                                            loc_0_15ED
                                                             djnz
```

```
15F3 11 1A 03
15F6 CD 9F 30
                                                                                 de, #0x31A
                                                                                                                                                                ; display_message_1A
                                                                 call
                                                                                 queue_fg_vector_fn
                                                                                                                                                                ; CODE XREF: 0000:158E<sup>†</sup>j; 0000:15B5<sup>†</sup>j
                                 locret_0_15F9:
15F9
                                                                 ret
15FA
15FA
15FA
                                                                 SUBROUTINE
15FA
15FA
15FA D5
15FA
                                 sub_0_15FA:
                                                                                                                                                                 ; CODE XREF: 0000:14D9<sup>†</sup>p; 0000:1533<sup>†</sup>p
                                                                 push
15FB E5
15FC CB 21
15FE 21 OF 36
1601 09
                                                                 push
sla
ld
                                                                                 hl
                                                                                 hl, #letter_coords
                                                                                hl, #soft_sprite_ram+0x74
a, (de)
de
1601 09
1602 EB
1603 21 74 69
1606 1A
1607 13
1608 77
1609 23
1600 36 72
160C 23
160D 36 0C
160F 23
1610 1A
1611 77
1612 E1
1613 D1
1614 C9
                                                                 add
                                                                 ex
ld
ld
                                                                                                                                                                ; sprite for initials entry
                                                                 inc
                                                                 ld
inc
ld
                                                                                  (hl), a
                                                                                                                                                                ; X coordinate
                                                                                hl (hl), #0x72; 'r'
                                                                                                                                                                ; tile
                                                                 inc
                                                                                 hl
                                                                                hl (hl), #0xC
hl
a, (de)
(hl), a
                                                                 ld
inc
ld
                                                                                                                                                                ; palette
                                                                 14
                                                                                                                                                                ; Y coordinate
                                                                 pop
                                                                                 hl
de
                                                                 pop
ret
1614
1614
1615
1615
                                  ; End of function sub_0_15FA
1615

1615 CD BD 30

1618 3A 27 62

161B 0F

161C D2 2F 16

161F 3A 88 63

1622 EF
                                  mario_pauline_reunion:
                                                                                                                                                                ; DATA XREF: 0000:072E o
                                                                                sub_0_30BD
a, (level_type)
                                                                 call
ld
                                                                 rrca
                                                                                NC, loc_0_162F
a, (unk_0_6388)
0x28
                                                                 jp
1d
                                                                                                                                                                 ; go!
                                                                 rst
1622 EF
1622
1623 54 16
1625 70 16
1627 8A 16
1629 32 17
162B 57 17
162D 8E 17
                                                                 .dw loc_0_1654
.dw loc_0_1670
.dw loc_0_168A
.dw loc_0_1732
.dw loc_0_1757
.dw loc_0_178E
                                                                                                                                                                 ; Jump table
162F
162F
162F
162F
                                  loc_0_162F:
                                                                                                                                                                ; CODE XREF: 0000:161C<sup>†</sup>j
                                                                 rrca
162F 0F
1630 D2 41 16
1633 3A 88 63
1636 EF
1636 1637 A3 16
1639 BB 16
163B 32 17
163B 57 17
                                                                                NC, loc_0_1641
a, (unk_0_6388)
0x28
                                                                                                                                                                 ; go!
                                                                 rst
                                                                 .dw loc_0_16A3
.dw loc_0_16BB
.dw loc_0_1732
                                                                                                                                                                ; Jump table
163D 57 17
163F 8E 17
1641
1641
1641 CD BD 1D
1644 3A 88 63
1647 EF
                                                                  .dw loc_0_1757
.dw loc_0_178E
                                  loc_0_1641:
                                                                                                                                                                ; CODE XREF: 0000:16301j
                                                                                 sub_0_1DBD
a, (unk_0_6388)
0x28
                                                                 call
                                                                 ld
rst
                                                                                                                                                                 ; go1
1648 B6 17
164A 69 30
164C 39 18
                                                                 .dw unk_0_17B6
.dw loc_0_3069
.dw loc_0_1839
                                                                                                                                                                ; Jump table
164E 6F 18
1650 80 18
1652 C6 18
1654
                                                                  .dw loc_0_186F
.dw loc_0_1880
.dw loc_0_18C6
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: 0000:16231o
                                                                                 sub_0_1708
hl, #dk_normal_spr
                                                                 call
                                                                 1d
                                                                 call
ld
                                                                                 copy_sprites_2_11_data
                                                                                 (eight_bit_countdown), a
                                                                 ld
1662
1662
1662 21 88 63
1665 34
1666 3E 01
                                  loc_0_1662:
                                                                                                                                                                ; CODE XREF: 0000:16A0|j
                                                                                h1, #unk_0_6388
(h1)
a, #1
0x30
h1, #soft_sprite_ram+0xB
c, #0xFC; '3'
0x38
                                                                 ld
                                                                 inc
                                                                                                                                                                 ; return if level bit not set
; sprite #2, x coord
1668 F7
1669 21 0B 69
166C 0E FC
                                                                 rst
ld
ld
166C DE FC
166E FF
166F C9
1670
1670
1670
1670
1670 DF
1671 21 32 39
1674 CD 4E 00
1677 3E 20
1679 32 09 60
1677 3E 20
1679 32 09 60
167C 21 88 63
167F 34
1680 3E 04
1682 F7
1683 21 0B 69
1686 0E 04
1688 FF
                                                                                                                                                                 ; subtract 4 from x coord for 10 sprites
                                                                                                                                                                ; DATA XREF: 0000:1625\u00e10 o ; wait for 8-bit countdown
                                 loc_0_1670:
                                                                 rst
ld
call
                                                                                 0x18
hl, #dk_throw_barrel_spr
                                                                                 copy_sprites_2_11_data
a, #0x20;
                                                                 ld
ld
ld
                                                                                  a, #0x20; ' (eight_bit_countdown), a
                                                                                 hl, #unk_0_6388
(hl)
                                                                 inc
                                                                 ld
rst
                                                                                 a, #4
0x30
                                                                                                                                                                    return if level bit not set
                                                                                 hl, #soft_sprite_ram+0xB
                                                                 ld
                                                                                                                                                                 ; sprite #2, x coord
; +4
                                                                 ld
1688 FF
1689 C9
                                                                                                                                                                    add 4 to x coord for 10 sprites
168A
168A
                                                                                                                                                                ; DATA XREF: 0000:1627<sup>†</sup>o ; wait for 8-bit countdown
                                 loc_0_168A:
168A DF
                                                                 rst
168B 21 8C 38
168E CD 4E 00
                                                                                 hl, #dk_climbing_spr
copy_sprites_2_11_data
                                                                 1d
                                                                 call
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
 1691 3E 66
1693 32 0C 69
                                                                                                                                  a, #0x66 ; 'f'
                                                                                                         ld
                                                                                                                                  (soft_sprite_ram+0xC), a
                                                                                                         ld
                                                                                                                                                                                                                                                              ; sprite #3, y coord
 1696 AF
1697 32 24 69
169A 32 2C 69
169D 32 AF 62
                                                                                                         xor
ld
ld
                                                                                                                                  (soft_sprite_ram+0x24), a
(soft_sprite_ram+0x2C), a
(unk_0_62AF), a
                                                                                                         ld
 16A0 C3 62 16
16A3
16A3
                                                                                                                                  loc_0_1662
loc 0 16A3:
                                                                                                                                                                                                                                                               ; DATA XREF: 0000:1637†o
                                                                                                        call
ld
sub
                                                                                                                                 sub_0_1708
a, (soft_sprite_ram+0x10)
#0x3B; ';'
                                                                                                                                                                                                                                                               ; sprite #4, y coord
                                                                                                                                 hl, #dk_normal_spr
copy_sprites_2_11_data
hl, #soft_sprite_ram+8
                                                                                                         1d
                                                                                                         call
ld
                                                                                                                                                                                                                                                               ; sprite #2, y coord
                                                                                                         ld
                                                                                                                                  c, a
0x38
 16B5 FF
16B6 21 88 63
16B9 34
16BA C9
                                                                                                         rst
ld
                                                                                                                                                                                                                                                               ; add C to y coord for 10 sprites
                                                                                                                                hl, #unk_0_6388
(hl)
                                                                                                         inc
                                                                                                         ret
 16BB
16BB
16BB
16BB AF
16BC 32 AO 62
16BF 3A A3 63
16C2 4F
16C3 3A 10 69
16C6 FE 5A
16C8 D2 E1 16
16CB CB 79
16CD CA D5 16
16DO
16DO
16DO 3E O1
16DO 3E O1
16DO 3E O1
16DO 5
16DS CD 02 26
                                                                                                                                                                                                                                                               ; DATA XREF: 0000:1639<sup>†</sup>o
                                                     loc 0 16BB:
                                                                                                         xor
                                                                                                        ld
ld
                                                                                                                                  (unk_0_62A0), a
a, (unk_0_63A3)
                                                                                                                                 c, a
a, (soft_sprite_ram+0x10)
                                                                                                         ld
                                                                                                         14
                                                                                                                                                                                                                                                               ; sprite #4, y coord
                                                                                                                                 #0x5A; 'Z'
NC, loc_0_16E1
                                                                                                         ср
                                                                                                         jp
bit
                                                                                                                                  Z, loc_0_16D5
                                                                                                         jp
                                                     loc_0_16D0:
                                                                                                                                                                                                                                                               ; CODE XREF: 0000:16E8|j
                                                                                                        ld
                                                                                                                                  (unk_0_62A0), a
                                                      loc_0_16D5:
                                                                                                                                                                                                                                                                ; CODE XREF: 0000:16CD<sup>†</sup>j
16D5 | 16D5 CD 02 26 16D5 | 16D8 3A A3 63 16DB 4F 16DC 21 08 69 16ED FF 16EO C9 16E1 | 16E1 |
                                                                                                                                                                                                                                                                ; 0000:16EB h
                                                                                                        call
ld
ld
                                                                                                                                  sub_0_2602
a, (unk_0_63A3)
                                                                                                                                 c, a
hl, #soft_sprite_ram+8
                                                                                                                                                                                                                                                               ; sprite #2, y coord
; add C to y coord for 10 sprites
                                                                                                         ld
 16E1
16E1
16E1
16E1 FE 5D
                                                      loc_0_16E1:
                                                                                                                                                                                                                                                               ; CODE XREF: 0000:16C8|j
                                                                                                                                  #0x5D ; ']
                                                                                                         ср
                                                                                                                                #0x5D; ']'
C, loc_0_16EE
7, c
Z, loc_0_16D0
loc_0_16D5
 16E3 DA EE 16
16E6 CB 79
16E8 CA DO 16
16EB C3 D5 16
                                                                                                         jp
bit
                                                                                                         jp
                                                                                                         jр
 16EE
 16EE
16EE
                                                                                                                                                                                                                                                              ; CODE XREF: 0000:16E3<sup>†</sup>j
                                                      loc_0_16EE:
 16EE 21 8C 38
                                                                                                        ld
                                                                                                                                 hl, #dk_climbing_spr
16EE 21 8C 38 61 6F1 CD 4E 00 16F4 3E 66 16F6 32 0C 69 16F9 AF 16FA 32 24 69 16FD 32 2C 69 1700 32 AF 62 1703 21 88 63 1706 34 1707 C9 1708
                                                                                                        call
ld
ld
                                                                                                                                  copy_sprites_2_11_data
                                                                                                                                  a, #UX00 , 1
(soft_sprite_ram+0xC), a
                                                                                                                                                                                                                                                               ; sprite #4, x coord
                                                                                                                                a
(soft_sprite_ram+0x24), a
(soft_sprite_ram+0x2C), a
(unk_0_62AF), a
hl, #unk_0_6388
(hl)
                                                                                                         xor
ld
                                                                                                         ld
ld
                                                                                                         ld
                                                                                                        ret
                                                                              SUBROUTINE
 1708
 1708
1708
1708
1708 CD 1C 01
1708 CD 1C 01
1708 CD 1C 01
1708 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
1722 36 07
1722 36 07
1722 37
1725 36 03
                                                                                                                                                                                                                                                                     CODE XREF: 0000:16541p
                                                     sub_0_1708:
                                                                                                                                                                                                                                                                ; 0000:16A31p
                                                                                                        call
ld
ld
                                                                                                                                 stop_sound
hl, #soft_sprite_ram+0x120
(hl), #0x80 ; 'Ç'
                                                                                                         inc
                                                                                                                                   (hl), #0x76 ; 'v'
                                                                                                         inc
                                                                                                                                hl
(hl), #9
                                                                                                         ld
                                                                                                         inc
ld
ld
                                                                                                                                 hl
(hl), #0x20; ''
                                                                                                                                (n1), #0x20,
hl, #soft_sprite_ram+5
(hl), #0x13
hl, #VRAM_start+0x1C4
de, #0x20; ''
                                                                                                                                                                                                                                                              ; sprite #1, flipy & code
; pauline, front-on
                                                                                                         ld
                                                                                                        ld
ld
                                                                                                                                 a, #0x10
display_3_tiles_HL
hl, #unk_0_608A
(hl), #7
                                                                                                         ld
                                                                                                         call
                                                                                                         ld
ld
                 36 03
 172F 36
1731 C9
1731
1731
                                                                                                                                  (hl), #3
                                                                                                        1d
                                                       ; End of function sub_0_1708
 1732
1732
1732
                                                                                                                                                                                                                                                               ; DATA XREF: 0000:1629<sup>†</sup>o
; 0000:163B<sup>†</sup>o
1732 CD 6F 30 1732 CD 6F 30 1732 CD 1738 FE 2C 1738 AF 1736 32 00 69 1742 32 0C 69 1745 32 24 69 1744 3D 1748 32 2C 69
                                                     loc_0_1732:
                                                                                                        call
ld
                                                                                                                                  sub_0_306F
                                                                                                                                  a, (soft_sprite_ram+0x13)
#0x2C; ','
                                                                                                         cp
ret
                                                                                                                                  NC
                                                                                                         xor
ld
                                                                                                                                  a
(soft_sprite_ram), a
(soft_sprite_ram+4), a
(soft_sprite_ram+0xC), a
= #0x6B; 'k'
                                                                                                                                                                                                                                                               ; sprite #0, y coord
; sprite #1, y coord
; sprite #3, y coord
                                                                                                         ld
ld
                                                                                                         ld
ld
                                                                                                                                  a, #0x6B; . k. (soft_sprite_ram+0x24), a
1747 32 24 69
1748 3D
1748 32 2C 69
174E 21 21 6A
1751 34
1752 21 88 63
1755 34
                                                                                                         dec
                                                                                                         ld
ld
                                                                                                                                  (soft_sprite_ram+0x2C), a
hl, #soft_sprite_ram+0x121
(hl)
```

hl, #unk\_0\_6388 (hl)

1d

```
1756 C9
                                                                               ret
                                                                                                                                                                                                      DATA XREF: 0000:162B\u0000:163D\u00fa
                                        loc_0_1757:
     57 CD 6F 30
                                                                               call
                                                                                                  sub 0 306F
175A CD 6C 17
175D 23
175E 13
                                                                               call
inc
inc
                                                                                                   sub_0_1760
                                                                                                  hl
de
175E 13
175F CD 83 17
1762 3E 40
1764 32 09 60
1767 21 88 63
                                                                               call
ld
ld
                                                                                                  sub 0 1783
                                                                                                   a, #0x40 ; '@'
(eight_bit_countdown), a
                                                                               ld
                                                                                                  hl, #unk_0_6388 (hl)
176A 34
176B C9
176C
176C
                                                                               ret
                                                                             SUBROUTINE
176C
176C
176C
176C 11 03 00
176F 21 2F 69
1772 06 0A
1774
                                         sub_0_176C:
                                                                                                                                                                                                   ; CODE XREF: 0000:175A1p
                                                                                                  de, #3
hl, #soft_sprite_ram+0x2F
b, #0xA
                                                                               ld
                                                                               ld
                                                                               ld
                                                                                                                                                                                                  ; CODE XREF: sub 0 176C+14-i
1774
                                        loc_0_1774:
1774
1774 A7
1775 7E
1776 ED 52
1778 FE 19
177A D2 7F 17
177D 36 00
177F
                                                                               and
ld
                                                                                                  a, (hl)
hl, de
#0x19
                                                                               sbc
                                                                               ср
                                                                                                  NC, loc_0_177F (hl), #0
                                                                               jp
ld
                                        loc_0_177F:
                                                                                                                                                                                                  ; CODE XREF: sub 0 176C+Efj
177F 2B
1780 10
1782 C9
            10 F2
                                                                               djnz
                                                                                                  loc_0_1774
                                                                               ret
                                         ; End of function sub_0_176C
1783
1783
1783
1783
1783
1783 06 0A
                                                                            SUBROUTINE
                                        sub 0 1783:
                                                                                                                                                                                                  ; CODE XREF: 0000:175F1p
                                                                               ld
                                                                                                  b. #0xA
1785
1785
1785
                                         loc_0_1785:
                                                                                                                                                                                                   ; CODE XREF: sub_0_1783+8|j
1785 7E
1786 A7
1787 C2 26 00
178A 19
178B 10 F8
                                                                               ld
                                                                                                  a, (hl)
                                                                               and
                                                                                                  NZ, pop_hl_ret
hl, de
loc_0_1785
                                                                               jp
add
                                                                               djnz
178D C9
178D
178D
                                         ret
; End of function sub_0_1783
178E
178E
178E
178E DF
                                                                                                                                                                                                      loc_0_178E:
178E DF
178E DF
178E 2A 2A 62
1792 23
1793 7E
1794 FE 7F
1796 C2 9D 17
1799 21 73 3A
1797 75
179D 22 2A 62
17A0 32 27 62
17A0 32 27 62
17A0 32 27 62
17A0 32 10 05
17A6 CD 9F 30
17A9 AF
17AA 32 88 63
17AD 21 09 60
17B0 36 30
17B2 23
17B3 36 08
                                                                               rst
ld
inc
ld
                                                                                                  0x18
                                                                                                                                                                                                      wait for 8-bit countdown
                                                                                                  hl, (seq_data)
                                                                                                  ma, (hl)
#0x7F; ''
NZ, loc_0_179D
hl, #level_seq_2
                                                                                                         (hl)
                                                                               cp
jp
ld
                                                                                                                                                                                                   ; restart repeating levels?
                                                                                                                                                                                                   ; no, skip
; repeating levels
                                                                                                  a, (hl)
                                                                               ld
                                                                                                                                                                                                   ; get new level
                                         loc_0_179D:
                                                                                                                                                                                                  ; CODE XREF: 0000:1796 j
                                                                               ld
                                                                                                  (seq_data), hl
                                                                                                  (level_type), a
de, #0x500
queue_fg_vector_fn
                                                                               ld
                                                                               ld
call
                                                                                                                                                                                                  ; update_bonus_timer
                                                                               xor
                                                                               ld
ld
ld
                                                                                                   (unk_0_6388).
                                                                                                  hl, #eight_bit_countdown (hl), #0x30; '0'
                                                                               inc
17B2 23
17B3 36 08
17B5 C9
17B5
17B6 00
                                                                                                  (hl), #8
                                                                               1d
                                                                                                                                                                                                  ; sequencer = how high screen
                                         unk_0_17B6:
                                                                                               0 ;
                                                                                                                                                                                                  ; DATA XREF: 0000:1648 o
                                                                               .db
1787 CD 1C 01
1787 CD 1C 01
178A 21 8A 60
178D 36 0E
178F 23
17C2 3E 10
17C4 11 20 00
17C7 21 23 76
17CA CD 14 05
17CD 21 83 75
17D0 CD 14 05
17D3 21 DA 70
17D6 CD 26 18
17D9 11 47 3A
17D6 CD 47 0D
17DF 21 D5 76
17E2 CD 26 18
17E9 11 4D 3A
17E8 CD A7 0D
17EE CD 26 18
17EB 21 D0 76
17EE CD 26 18
17EB 21 D0 76
17EE CD 26 18
17EB 21 D0 76
17EE CD 26 18
17EB 11 D0 76
17EE CD 26 18
17EF 11 53 3A
17ER CD 26 18
17FT 21 CB 76
17FA CD 26 17FA CD 26 17FA CD 26 17FA 17FB 11
17FF 11 CB 76
17FA CD 26 17FA CD 26 17FA CD 26 17FA 17FB 11
17FD 11 59 3A
                                                                               call
ld
                                                                                                  stop_sound
                                                                                                  hl, #unk_0_608A
(hl), #0xE
                                                                               ld
                                                                                                 (h1), #0xE
h1
(h1), #3
a, #0x10
de, #0x20; ''
h1, #VRAM_start+0x223
display_3_tiles_HL
h1, #VRAM_start+0x183
display_3_tiles_HL
                                                                               inc
ld
                                                                               ld
ld
                                                                                                                                                                                                   ; <space>
; inc by column
                                                                               ld
call
ld
                                                                               call
ld
call
ld
                                                                                                  hi, #VRAM_start+0x2DA
clear_14x5_HL
de, #draw_data_rivet_end1
                                                                               call
ld
call
ld
                                                                                                  draw_level_background
hl, #VRAM_start+0x2D5
clear_14x5_HL
                                                                                                 crear_14x5_HL
de, #draw_data_rivet_end2
draw_level_background
hl, #VRAM_start+0x2D0
clear_14x5_HL
de #draw_d-t-
17E2 CD 26 18
17E5 11 4D 3A
17E8 CD A7 0D
17EB 21 D0 76
17EE CD 26 18
17F1 11 53 3A
17F4 CD A7 0D
17F7 21 CB 76
17F7 CD 26 18
17F7 15 59 3A
17F4 CD A7 0D
1800 21 5C 38
1806 CD 4E 0B
1809 21 08 69
                                                                               call
ld
call
ld
                                                                                                 clear_14x5_HL
de, #draw_data_rivet_end3
draw_level_background
hl, #VRAM_start+0x2CB
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
hl, #soft_sprite ram+5
                                                                               call
ld
call
ld
                                                                               call
ld
                                                                               call
1809 21 08 69
180C 0E 44
180E FF
                                                                               ld
ld
                                                                                                                                                                                                  ; sprite #2, y coord
                                                                                                                                                                                                  ; add 68 to y coord for 10 sprites
                                                                               rst
180F 21 05 69
1812 36 13
                                                                                                  hl, #soft_sprite_ram+5 (hl), #0x13
                                                                                                                                                                                                  ; sprite #1, yflip & code
; pauline, straight-on
                                                                               1d
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
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
1826
                                                             ld
                                                             ld
                                                                            (eight_bit_countdown), a
                                                             ld
ld
ld
                                                                            (kong_thrash_tmr), a
h1, #unk_0_6388
(h1)
                                                             inc
                                                             14
                                                                             (unk_0_63C0), hl
                                                             ret
1826
1826
1826
1826
                                                           S U B R O U T I N E
                               clear_14x5_HL:
                                                                                                                                                       ; CODE XREF: 0000:13221p
1826 11 DB FF
1826
1829 0E 0E
182B 3E 10
                                                                                                                                                       ; 0000:1373<sup>p</sup> ...
                                                             ld
                                                                            de, #0xFFDB
                                                             ld
                                                                            a, #0x10
                                                             ld
                                                                                                                                                      ; <space>
182D
182D
182D 06 05
                                loc_0_182D:
                                                                                                                                                      ; CODE XREF: clear_14x5_HL+F|j
                                                             ld
                                                                            b, #5
182D 06 05

182F

182F

182F 77

1830 23

1831 10 FC

1833 19

1834 0D

1835 C2 2D 18

1838 C9

1838

1838

1838

1839
                               loc_0_182F:
                                                                                                                                                       ; CODE XREF: clear_14x5_HL+B|j
                                                                                                                                                      ; display space
; next row
; loop 5 times
                                                             ld
                                                                             (hl), a
                                                             inc
                                                                             loc 0 182F
                                                             dinz
                                                             add
dec
                                                                            NZ, loc 0 182D
                                                                                                                                                      ; loop through 14 columns
                                                             qŗ
                                ; End of function clear_14x5_HL
                                ; -
1839
1839
1839 21 90 63
183C 34
                                loc_0_1839:
                                                                                                                                                      ; DATA XREF: 0000:164C\u00f30
                                                             ld
                                                                            hl, #kong_thrash_tmr
                                                                            (h1)
                                                             inc
183C 34
183D CA 59 18
1840 7E
1841 E6 07
                                                                            Z, loc_0_1859
a, (h1)
#7
                                                             jp
1d
                                                             and
1844 11 CF 39
1847 CB 5E
1849 20 03
1848 11 F7 39
                                                             ret
                                                                            NZ
                                                                            de, #0x39CF
3, (h1)
NZ, loc_0_184E
                                                             ld
bit
                                                             jr
ld
de, #0x39F7
                                loc_0_184E:
                                                                                                                                                      ; CODE XREF: 0000:1849<sup>†</sup>j
                                                             ex
                                                                            de, hl
                                                                            copy_sprites_2_11_data
h1, #soft_sprite_ram+8
c, #68
                                                             call
ld
ld
                                                                                                                                                       ; sprite #2, y coord
                                                                            0x38
                                                                                                                                                      ; add 68 to y coord for 10 sprites
                                                             rst
loc_0_1859:
                                                                                                                                                      ; CODE XREF: 0000:183D14
                                                                           hl, #dk_normal_spr
copy_sprites_2_ll_data
hl, #soft_sprite_ram+8
c, #68
0x38
a, #0x20; '
(eight_bit_countdown)
                                                             ld
                                                             call
ld
                                                                                                                                                      ; sprite #2, y coord
                                                             ld
rst
ld
                                                                                                                                                      ; add 68 to y coord for 10 sprites
                                                                            (eight_bit_countdown), a h1, #unk_0_6388 (h1)
                                                             ld
                                                             ld
                                                             inc
                                                                                                                                                      ; DATA XREF: 0000:164E↑o; wait for 8-bit countdown
                                loc_0_186F:
                                                             rst
                                                                             0x18
                                                                           0x18
hl, #fk_falling_spr
copy_sprites_2_11_data
a, #3
(digital_snd_tmr_kong_fall), a
hl_#mpk_0_6299
                                                             1d
                                                             call
ld
ld
                                                                            hl,
(hl)
                                                             ld
                                                                                   #unk_0_6388
                                                             ret
1880
1880
1880
1880 21 0B 69
1883 0E 01
1885 FF
1886 3A 1B 69
1889 FE DO
                                loc_0_1880:
                                                                                                                                                       ; DATA XREF: 0000:1650 o
                                                                            hl, #soft_sprite_ram+0xB
                                                             ld
                                                                                                                                                          sprite #2, x coord
                                                                            0x38
a, (soft_sprite_ram+0x1B)
#0xD0; 'ð'
                                                             1d
                                                             rst
ld
                                                                                                                                                          add 1 to x coord for 10 sprites
                                                             cp
ret
1889 FE DO
188B CO
188C 3E 20
188E 32 19 69
1891 21 24 6A
1894 36 7F
1896 2C
1897 36 39
1899 2C
                                                                            NZ
                                                                           NZ
a, #0x20; ' '
(soft_sprite_ram+0x19), a
hl, #soft_sprite_ram+0x124
(hl), #0x7F; ' '
                                                             ld
ld
                                                             ld
ld
                                                             ld
                                                                             (hl), #0x39 ; '9'
1899 2C 189A 36 01 189C 2C 189A 36 01 189C 2C 189A 36 08 189F 21 C6 76 18A2 CD 26 18 18A5 11 5F 3A 18A8 CD A7 0D 18AB 11 04 00 18AE 01 28 02 18B1 21 03 69 18B4 CD 3D 00 18B7 3E 00 18B9 32 AF 62 18BC 3E 03 18BE 32 82 60 18C1 21 88 63 18C4 34 18C5 C9 18C6 18C6 18C6
                                                             inc
                                                                            (hl), #1
                                                             ld
inc
ld
                                                                            (h1), #0xD8; 'Ï'
h1, #VRAM_start+0x2C6
                                                             ld
                                                             call
ld
call
ld
                                                                            clear_14x5_HL
de, #draw_data_rivet_end5
draw_level_background
                                                                           draw_tevt_background
de, #4
bc, #0x228
hl, #soft_sprite_ram+3
add_c_sprite_register_xB
                                                             ld
ld
                                                                                                                                                      ; sprite #0, x coord
                                                             call
ld
                                                             ld
ld
                                                                             (unk_0_62AF), a
                                                                                                                                                      ; tmr=3
                                                                            a, #3
(digital_snd_tmr_thump), a
h1, #unk_0_6388
(h1)
```

; DATA XREF: 0000:16521o

ld ld inc

ld dec hl, #unk\_0\_62AF

(h1) Z, loc\_0\_193D

loc\_0\_18C6:

1806 18C6 18C6 21 AF 62

18CA CA 3D 19

```
18CE E6 07
                                                                           and
                                                                                           #7
NZ
hl, #soft_sprite_ram+0x125
a, (hl)
#0x80; 'C'
(hl), a
hl, #soft_sprite_ram+0x19
b, (hl)
5, b
   18CE E6 07

18D0 C0

18D1 21 25 6A

18D4 7E

18D5 EE 80

18D7 77

18D8 21 19 69

18DB 46
                                                                           ret
ld
ld
                                                                           xor
                                                                           ld
ld
ld
   18DB 46
18DC CB A8
18DE AF
18DF CD 09 30
18E2 F6 20
18E4 77
18E5 21 AF 62
18E8 7E
18E9 FE E0
                                                                           res
xor
call
                                                                                           #0x20; ' ' (h1), a
h1, #unk_0_62AF
a, (h1)
#0xE0; 'Ó'
                                                                           or
                                                                           ld
ld
ld
                                                                           cp
jp
ld
ld
   18E9 FE E0

18EB C2 10 19

18EE 3E 50

18F0 32 4F 69

18F3 3E 00

18F5 32 4D 69

18F8 3E 9F
                                                                                            NZ, loc_0_1910
a, #0x50; 'P'
                                                                                            a, #0x50; 'P'
(soft_sprite_ram+0x4F), a
   18F0 32 4F 69
18F3 3E 00
18F5 32 4D 69
18F8 3E 9F
18FA 32 4C 69
18FD 3A 03 62
1900 FE 80
1902 D2 0F 19
1905 3E 80
1907 32 4D 69
                                                                           ld
ld
ld
ld
                                                                                            (soft_sprite_ram+0x4D), a
a, #0x9F; 'f'
(soft_sprite_ram+0x4C), a
                                                                                            a, (mario_y_coord)
#0x80; 'Ç'
NC, loc_0_190F
                                                                           cp
jp
ld
                                                                                            a, #0x80 ; 'C'
(soft_sprite_ram+0x4D), a
                                                                           14
    1907 32 4D 69
190A 3E 5F
190C 32 4C 69
190F
                                                                           ld
ld
                                                                                            (soft_sprite_ram+0x4C), a
   190F
190F 7E
1910
1910
                                       loc_0_190F:
                                                                                                                                                                                  ; CODE XREF: 0000:19021 j
                                                                          ld
                                                                                           a, (hl)
                                                                                                                                                                                  ; CODE XREF: 0000:18EB1i
                                       loc 0 1910:
   1910 FE CO 1912 CO 1913 21 8A 60 1916 36 0C 1918 3A 29 62 191B 0F 191C 38 02 191E 36 05
                                                                                            #0xC0 ; 'L'
                                                                           cp
ret
ld
                                                                                           NZ
hl, #unk_0_608A
(hl), #0xC
a, (level)
                                                                           ld
                                                                           ld
rrca
                                                                                                 loc_0_1920
                                                                           jr
ld
                                                                                            (hl), #5
   191E 36 05
1920
1920 2
1920 23
1921 36 03
1923 21 23 6A
1926 36 40
1928 2B
1929 36 09
192B 2B
192C 36 76
192E 2B
                                       loc_0_1920:
                                                                                                                                                                                  ; CODE XREF: 0000:191C j
                                                                           inc
                                                                                            (h1), #3
h1, #soft_sprite_ram+0x123
(h1), #0x40; '@'
                                                                           14
                                                                           ld
ld
                                                                           dec
                                                                                            hl
                                                                           ld
dec
                                                                                             (hl), #9
                                                                                            hl
(hl), #0x76; 'v'
   192E 2B
192F 36 8F
1931 3A 03 62
1934 FE 80
                                                                           dec
ld
ld
                                                                                             (hl), #0x8F ; 'Å'
                                                                                            a, (mario_y_coord)
#0x80; 'C'
                                                                           ср
   1934 FE 80
1936 D0
1937 3E 6F
1939 32 20 6A
193C C9
193D
193D
193D
                                                                           ret
ld
ld
                                                                                            NC
a. #0x6F; 'o'
                                                                                            a, #0x6F; 'o'
(soft_sprite_ram+0x120), a
                                                                           ret
                                                                                                                                                                                   ; CODE XREF: 0000:18CA j
                                        loc_0_193D:
    193D 2A 2A 62
1940 23
1941 7E
1942 FE 7F
                                                                           ld
                                                                                            hl, (seq_data)
                                                                                            hl
                                                                                           hl

a, (hl)

#0x7F; ''

NZ, loc_0_194B

hl, #level_seq_2

a, (hl)
                                                                           ld
                                                                                                                                                                                    ; restart repeating levels?
                                                                           ср
   1944 C2 4B 19
1947 21 73 3A
194A 7E
194B
                                                                           jp
ld
ld
                                                                                                                                                                                   ; no, skip
; start repeating levels
; get new level
   194B
194B 22 2A 62
194E 32 27 62
1951 21 29 62
1954 34
1955 11 00 05
1958 CD 9F 30
195B AF
                                                                                                                                                                                   ; CODE XREF: 0000:1944<sup>†</sup> †
                                       loc_0_194B:
                                                                                           (seq_data), hl
(level_type), a
hl, #level
(hl)
de, #0x500
                                                                           ld
ld
ld
                                                                           inc
ld
call
                                                                                                                                                                                   ; next level counter
; update_bonus_timer
                                                                                            queue_fg_vector_fn
                                                                           xor
                                                                                           a (unk_0_622E), a (unk_0_6388), a hl, #eight_bit_countdown (hl), #0xE0; 'Ó'
    1958 AF
195C 32 2E 62
195F 32 88 63
1962 21 09 60
                                                                           ld
ld
ld
    1962 21 09
1965 36 E0
1967 23
1968 36 08
                                                                           ld
                                                                                           hl
(hl), #8
                                                                           inc
ld
                                                                                                                                                                                   ; set how high screen
    196A C9
196B
                                                                           ret
   196B
196B
196B CD 52 08
                                        loc_0_196B:
                                                                                                                                                                                   ; DATA XREF: 0000:0730 o
                                                                           call
                                                                                            clear_tiles_and_sprites
   196E 3A 0E 60
1971 C6 12
1973 32 0A 60
1976 C9
                                                                           1d
                                                                                            a, (current_player_E)
a, #18
                                                                                                                                                                                   ; 0/1
                                                                           add
ld
                                                                                                                                                                                   ; 18/19
                                                                                            (main_sequencer), a
                                                                           ret
   1977
1977
1977
1977 CD EE 21
                                       attract_mode_gameplay:
                                                                                                                                                                                   ; DATA XREF: 0000:074E↑o
                                                                           call
                                                                                            next_attract_action
197A
197A
197A CD BD 1D
197D CD 8C 1E
1980 CD C3 1A
1983 CD 72 1F
1986 CD 8F 2C
1989 CD 03 2C
1980 CD ED 30
198F CD 04 2E
                                                                                                                                                                                    ; DATA XREF: 0000:071A10
                                        gameplay:
                                                                                            sub_0_1DBD
sub_0_1E8C
sub_0_1AC3
sub_0_1F72
                                                                           call
                                                                                                                                                                                    ; another jump table
                                                                           call
                                                                           call
                                                                           call
                                                                                            sub_0_2C8F
sub 0 2C03
                                                                           call
call
                                                                                            sub_0_30ED
                                                                                                                                                                                   ; process fireballs?
; process springs
                                                                                            sub_0_2E04
                                                                           call
                                                                                            sub 0 24EA
    1995 CD DB 2D
1998 CD D4 2E
1998 CD 07 22
199E CD 33 1A
                                                                           call
                                                                                            sub_0_2DDB
sub_0_2ED4
sub_0_2207
                                                                           call
                                                                                            sub_0_1A33
sub_0_2A85
                                                                           call
    19A1 CD 85 2A
                                                                           call
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
19A4 CD 46 1F
19A7 CD FA 26
19AA CD F2 25
19AD CD DA 19
19B0 CD FB 03
19B3 CD 08 28
19B6 CD 1D 28
19B9 CD 57 1E
19BC CD 07 1A
19BF CD CB 2F
19C2 00
                                                       call
                                                                    sub_0_1F46
                                                                    sub_0_26FA
sub_0_25F2
sub_0_19DA
animate_kong_and_pauline
                                                       call
                                                      call
call
                                                                    sub_0_2808
sub_0_281D
sub_0_1E57
                                                       call
                                                      call
call
                                                                    sub_0_1A07
19BF CD CB 2F
19C2 00
19C3 00
19C4 00
19C5 3A 00 62
19C8 A7
19C9 CD
19CA D 1C 01
19CD 21 82 60
19D2 21 82 60
19D2 21 0A 60
19D5 34
19D6 2B
19D7 36 40
19D7 36 40
19D8 19D8
                                                      call
nop
nop
                                                                    sub 0 2FCB
                                                       nop
                                                      ld
and
ret
call
                                                                    a, (mario_alive_flag)
                                                                                                                                      ; mario alive?
; yes, return
                                                                    NZ
                                                                    stop_sound
                                                                    hl, #digital_snd_tmr_thump (hl), #3
                                                       ld
                                                                                                                                      ; CODE XREF: 0000:1A30-i
                            loc_0_19D2:
                                                      ld
inc
dec
ld
                                                                    hl, #main_sequencer
(hl)
                                                                                                                                         next sequence
                                                                                                                                      ; 8-bit countdown
; set counter
                                                                    hl
                                                                    (hl), #64
                                                      ret
                                                       SUBROUTINE
19DA
19DA
19DA
19DA
19DA 3A 03 62
                                                                                                                                      ; CODE XREF: 0000:19AD1p
                            sub_0_19DA:
                                                                    a, (mario_y_coord)
                                                       ld
19DD 06 03
19DF 21 0C 6A
19E2
19E2
                                                       ld
                                                                    hl, #soft_sprite_ram+0x10C
                                                                                                                                      ; CODE XREF: sub 0 19DA+10 h
                            loc 0 19E2:
cp
jp
inc
                                                                    (h1)
                                                                    Z, loc_0_19ED
                                                       inc
                                                       inc
                                                                    loc 0 19E2
                                                       djnz
19ED 19ED 3A 05 62 19F0 2C 19F1 2C 19F3 BE 19F4 CO 19F5 2D 19F6 2D 19F7 CB 5E 19F9 CO 19FA 2D 19FB 2C 43 63 19FE AF 19FF 3C 45 1A02 3C 1A03 3C 40 63 1A06 C9
19ED
                            loc 0 19ED:
                                                                                                                                      ; CODE XREF: sub 0 19DA+91;
                                                                   a, (mario_x_coord)
1
1
                                                       14
                                                       inc
inc
inc
                                                      cp
ret
dec
                                                                    (hl)
NZ
                                                       dec
                                                       bit
                                                                        (hl)
                                                      ret
                                                       ld
                                                                    (unk_0_6343), hl
                                                       xor
ld
                                                                     (unk_0_6342), a
                                                       1d
                                                                    (unk_0_6340), a
1A06 C9
1A06
                            ret; End of function sub_0_19DA
1A06
1A07
1A07
1A07
1A07
1A07
1A07
1A07 3A 86 63
1A0A EF
                                                      SUBROUTINE
                            sub_0_1A07:
                                                                                                                                      ; CODE XREF: 0000:19BC1p
                                                                    a, (unk_0_6386)
0x28
                                                                                                                                       ; go!
                                                       rst
1A0A
1A0B 1E 1A
1A0D 15 1A
1A0F 1F 1A
                                                       .dw locret_0_1A1E
.dw loc_0_1A15
.dw loc_0_1A1F
                                                                                                                                       ; Jump table
1A0F 1F 1A
1A11 2A 1A
1A13 00 00
1A15
1A15
1A15
1A15
1A15
1A15
1A15 3F
1A16 32 87 63
1A19 3E 02
1A1B 32 86 63
1A1E
1A1E
1A1E
1A1E
1A1E
1A1E
1A1E
                                                       .dw
                                                             loc_0_1A2A
                            loc_0_1A15:
                                                                                                                                      ; DATA XREF: sub_0_1A07+6 o
                                                      xor
ld
                                                                    (unk_0_6387), a
                                                       ld
                                                                    (unk_0_6386), a
                            locret_0_1A1E:
                                                                                                                                      ; DATA XREF: sub 0 1A07+4 o
                                                      ret
1A1E
1A1E
1A1F
                             ; End of function sub_0_1A07
loc_0_1A1F:
                                                                                                                                      ; DATA XREF: sub_0_1A07+8 o
                                                                    hl, #0x6387
                                                       ld
                                                      dec
                                                      ret
ld
ld
                                                                    NZ
a, #3
                                                                    (unk_0_6386), a
                                                       ret
                                                                                                                                      ; DATA XREF: sub_0_1A07+A10
                             loc 0 1A2A:
                                                       ld
                                                                    a, (mario_jumping)
                                                      and
pop
jp
                                                                    loc 0 19D2
```

SUBROUTINE

a, #8

a, (mario\_y\_coord)

 $0 \times 30$ 

ld

rst ld

sub\_0\_1A33:

1A36 3A 03 62

; CODE XREF: 0000:199E↑p

; return if level bit not set

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
1A39 FE 4B
                                                                #0x4B ; 'K'
Z, loc_0_1A4B
1A39 FE 4B
1A3B CA 4B 1A
1A3E FE B3
1A40 CA 4B 1A
1A43 3A 91 62
1A46 3D
1A47 CA 51 1A
                                                    jp
cp
jp
ld
                                                                #0xB3; '|'
Z, loc_0_1A4B
a, (unk_0_6291)
                                                                a
Z, loc_0_1A51
                                                    dec
                                                    jp
ret
1A4A C9
1A4B
1A4B
1A4B
1A4B 3E 01
1A4B
                          loc_0_1A4B:
                                                                                                                               ; CODE XREF: sub_0_1A33+8 | j
; sub_0_1A33+D | j
                                                    ld
1A4B
1A4D 32 91 62
1A50 C9
1A51
1A51
                                                    1d
                                                                (unk_0_6291), a
1A51
1A51
1A51 32 91 62
1A54 47
1A55 3A 05 62
1A58 3D
1A59 FE DO
1A5B DO
1A5C 07
1A5D D2 62 1A
1A60 CB DO
                          loc_0_1A51:
                                                                                                                               ; CODE XREF: sub_0_1A33+14 j
                                                    ld
ld
                                                                 (unk_0_6291), a
                                                                b, a
a, (mario_x_coord)
                                                    ld
                                                    dec
cp
ret
                                                                 #0xD0 ; 'ð'
                                                    rlca
                                                                NC, loc_0_1A62
2, b
1A60 CB D0
1A62
1A62
1A62
1A63 07
1A64 D2 69 1A
                                                                                                                               ; CODE XREF: sub_0_1A33+2A1j
                          loc_0_1A62:
                                                    rlca
                                                                NC, loc_0_1A69
                                                    qį
1A67 CB C8
1A69
1A69
1A69 E6 07
                                                    set
                                                                1, b
                           loc_0_1A69:
                                                                                                                               ; CODE XREF: sub_0_1A33+31 j
and
                                                    cp
jp
set
                                                                NZ, loc_0_1A72
1, b
                          loc 0 1A72:
                                                                                                                               ; CODE XREF: sub 0 1A33+3A1 j
                                                    ld
                                                                a, (mario_y_coord)
                                                    rlca
                                                    jp
set
                                                                NC, loc_0_1A7B 0, b
                          loc 0 1A7B:
                                                                                                                               ; CODE XREF: sub 0 1A33+431 j
                                                    14
                                                                hl. #unk 0 6292
                                                                a, b
a, 1
1, a
                                                    ld
add
                                                    ld
                                                    ld
and
ret
                                                                     (hl)
1A84 36 00
1A86 21 90 62
1A89 35
1A8A 78
1A8B 01 05 00
1A8E 1F
1A8P DA BD 1A
1A92 21 CB 02
1A95
1A95
1A95 A7
1A96 CA 9E 1A
                                                    ld
ld
dec
                                                                (h1), #0
h1, #unk_0_6290
(h1)
                                                                 a, b
                                                    ld
rra
                                                                bc, #5
                                                                C, loc_0_1ABD
hl, #0x2CB
                                                    jp
ld
                           loc_0_1A95:
                                                                                                                               ; CODE XREF: sub_0_1A33+8D|j
1A96 CA 9E 1A
                                                                Z, loc_0_1A9E
                                                    jр
1A99
1A99
1A99 09
                          loc_0_1A99:
                                                                                                                               ; CODE XREF: sub_0_1A33+68|j
                                                    add
                                                                hl, bc
1A9A
        3D
1A9B C2 99 1A
1A9E
1A9E
                                                                NZ, loc_0_1A99
; CODE XREF: sub_0_1A33+63<sup>†</sup>j
                          loc_0_1A9E:
                                                                bc, #VRAM_start
hl, bc
a, #0x10
(hl), a
                                                    1d
                                                    add
ld
ld
                                                    dec
                                                                 (hl), a
                                                    inc
                                                    ld
ld
ld
                                                                (h1), a
a, #1
(unk_0_6340), a
                                                                (unk_0_6342), a
(unk_0_6225), a
a, (mario_jumping)
                                                    ld
                                                    ld
ld
                                                    and
call
                                                                a
Z, sub_0_1D95
1ABD
1ABD
                          loc_0_1ABD:
                                                                                                                               ; CODE XREF: sub 0 1A33+5C1 j
1ABD 21 2B 01
1AC0 C3 95 1A
1AC0
                          ld hl, #0x12B
jp loc_0_1A95
; End of function sub_0_1A33
SUBROUTINE ...
                                                                                                                               ; CODE XREF: 0000:1980↑p
                           sub_0_1AC3:
                                                    ld
                                                                a, (mario jumping)
                                                                a
Z, loc_0_1BB2
a, (unk_0_621E)
                                                    dec
1AC6 3D
1AC7 CA B2 1B
1ACA 3A 1E 62
1ACD A7
1ACE C2 55 1B
1AD1 3A 17 62
1AD4 3D
                                                    jp
ld
```

; jump pressed?

and jp ld dec

jp ld dec jp ld

1AD5 CA E6 1A 1AD8 3A 15 62 1ADB 3D 1ADC CA 38 1B

1ADF 3A 10 60 1AE2 17

NZ. loc 0 1B55 a, (unk\_0\_6217) a Z, loc\_0\_1AE6

(mario\_climbing) a Z, loc\_0\_1B38

a, (controller in)

```
1AE3 DA 6E 1B
                                                                           C, loc_0_1B6E
                                                                                                                                                     ; yes, skip
                                                             jр
1AE6
1AE6
                              loc_0_1AE6:
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+12<sup>†</sup>j
1AE6 CD 1F 24
1AE9 3A 10 60
1AEC 1D
                                                             call
ld
                                                                           sub_0_241F
a, (controller_in)
                                                             dec
                                                                           e
Z, loc_0_1AF5
1AEC 1D
1AED CA F5 1A
1AF0 CB 47
1AF2 C2 8F 1C
                                                             jp
bit
                                                                           0, a
NZ, loc_0_1C8F
                                                             jр
1AF5
1AF5
1AF5 15
1AF6 CA FE 1A
1AF9 CB 4F
1AFB C2 AB 1C
1AFE
                               loc_0_1AF5:
                                                                                                                                                    ; CODE XREF: sub_0_1AC3+2A1j
                                                                           d
Z, loc_0_1AFE
                                                             jp
bit
                                                                           1, a
NZ, loc_0_1CAB
                                                             jp
1AFE 3A 17 62 1B01 3D 1B02 C8 1B06 C6 08 1B08 57 1B00 3A 03 62 1B0C C6 03 1B0C C6 03 1B0C C6 03 1B16 C7 62 1B13 CD 62 23 1B16 F5 1B17 21 07 62 1B1A 7E 1B1B E6 80 1B1D F6 06
                               loc 0 1AFE:
                                                                                                                                                    ; CODE XREF: sub 0 1AC3+331i
1AFE
                                                            ld
dec
ret
                                                                           a, (unk_0_6217)
                                                             ld
                                                                           a, (mario_x_coord)
                                                             add
ld
ld
                                                                           a, (mario_y_coord)
#3
                                                             or
                                                             res
ld
                                                             call
                                                                           sub_0_236E
                                                             push
ld
ld
                                                                           hl, #mario_flipy_sprite_tile
                                                                            a, (hl)
#0x80 ; 'Ç'
                                                             and
1B1B E6 80

1B1D F6 06

1B1F 77

1B20 21 1A 62

1B23 3E 04

1B25 B9

1B26 36 01

1B28 D2 2C 1B
                                                             or
ld
ld
ld
                                                                                                                                                     ; mario climbing character
                                                                           (h1), a
h1, #unk_0_621A
                                                                           a, #4
                                                                           (h1), #1
NC, loc_0_1B2C
(h1)
                                                                                                                                                      ; set as broken ladder
1B28 D2 2C 1B
1B2B 35
1B2C
1B2C F1
1B2D A7
1B2E CA 4E 1B
1B31 7E
1B32 A7
1B33 C0
1B34 2C
1B35 72
1B36 2C
1B37 70
1B38 1B38 1B38 3A 10 60
                                                             jp
dec
                                                                                                                                                     ; set as normal ladder
                               loc_0_1B2C:
                                                                                                                                                      ; CODE XREF: sub_0_1AC3+65<sup>†</sup>j
                                                             pop
and
                                                                           a
Z, loc_0_1B4E
a, (hl)
                                                             jp
ld
                                                             and
                                                                           a
NZ
                                                             ret
inc
ld
                                                                           1
(hl), d
                                                                                                                                                     ; set top coordinate of ladder ; set bottom Y coordinate of ladder
                                                             ld
                                                                           (hl), b
                               loc_0_1B38:
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+19<sup>†</sup>j
1B38
1B38 3A 10 60
1B3B CB 5F
1B3D C2 F2 1C
1B40 3A 15 62
1B43 A7
1B44 C8
1B45
1B45 3A 10 60
                                                                           a, (controller_in)
3, a
                                                             1d
                                                             bit
                                                                                                                                                     ; down?
; yes, go
                                                                           NZ, loc_0_1CF2
                                                             jp
ld
                                                                           a, (mario_climbing)
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+8F|j
                               loc 0 1B45:
1845
1845 3A 10 60
1848 CB 57
184A C2 03 1D
184D C9
                                                             ld
                                                                           a, (controller_in)
                                                             bit
                                                                                                                                                     ; up?
; yes, go
                                                                           NZ, loc_0_1D03
                                                             jр
                                                             ret
1B4E
1B4E
1B4E
                               loc_0_1B4E:
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+6B<sup>†</sup> j
1B4E 2C
                                                             inc
1B4F
1B50
1B51
         70
2C
72
                                                             ld
inc
                                                                            (hl), b
                                                                                                                                                     ; set top Y corordinate of ladder ; set bottom coordinate of ladder
                                                                            (hl), d
1B52 C3 45 1B
1B55
1B55
1B55
                                                             jp
                                                                            loc 0 1B45
                               loc_0_1B55:
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+Bfj
ld
dec
ret
                                                                           hl, #unk_0_621E
(hl)
NZ
                                                                           NZ
a, (unk_0_6218)
(unk_0_6217), a
hl, #mario_flipy_sprite_tile
a, (hl)
#0x80; 'Ç'
                                                             ld
                                                             ld
ld
ld
1B64 E6 80
                                                                                                                                                     ; h-flip mario
                                                             and
1B66 77
1B67 AF
1B68 32 02 62
1B6B C3 A6 1D
                                                             ld
xor
                                                                           (hl), a
                                                                           (unk_0_6202), a
loc_0_1DA6
                                                             ld
                                                             qŗ
1B6E
1B6E
1B6E
                               loc_0_1B6E:
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+20 j
186E 186E 3E 01 1870 32 16 62 1873 21 10 62 1876 3A 10 60 1879 01 80 00 187C 1F 1880 01 8 FF 1884 DA 8A 1B 1887 01 00 00 188A
                                                             ld
ld
ld
ld
                                                                                                                                                     ; start_jump; set mario jumping
                                                                           a, #1
(mario_jumping), a
h1, #unk_0_6210
a, (controller_in)
                                                             ld
rra
                                                                           bc, #0x80; 'Ç
                                                                                                                                                     ; right?
; yes, skip
                                                                            C, loc_0_1B8A
                                                             jp
ld
                                                                           bc, #0xFF80
                                                                                                                                                     ; left?
; yes, skip
                                                             rra
                                                                           C, loc_0_1B8A
bc, #0
                                                             jp
1d
1B8A
1B8A
1B8A AF
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+BA<sup>†</sup>j; sub_0_1AC3+C1<sup>†</sup>j
                               loc_0_1B8A:
1B8A
                                                             xor
1B8B 70
                                                                            (hl), b
                                                             ld
1888 70
188C 2C
188D 71
188E 2C
188F 36 01
1891 2C
1892 36 48
                                                             inc
                                                                            (hl), c
                                                             inc
                                                             ld
inc
                                                                            (hl), #1
                                                                            (hl), #0x48; 'H'
1B94 2C
1B95 77
                                                                            (hl), a
```

Z, sub\_0\_1D95 loc\_0\_1DA6

a, (mario\_x\_coord)

; CODE XREF: sub 0 1AC3+14D1 j

call

ld

loc 0 1C76:

1C70 CC 95 1D

1C73 C3 A6 1D

1C76 3A 05 62

```
Page: 42
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
1C79 21 0E 62
1C7C D6 0F
                                                                                  hl, #unk_0_620E
                                                                  sub
1C7C D6 OF
1C7E BE
1C7F DA A6 1D
1C82 3E 01
1C84 32 20 62
1C87 21 84 60
1C8A 36 03
1C8C C3 A6 1D
                                                                                  (hl)
C, loc_0_1DA6
a, #1
                                                                                  (unk_0_6220), a
                                                                  ld
                                                                                  hl, #0x6084
(hl), #3
                                                                 ld
ld
                                                                                  loc_0_1DA6
                                                                  jр
1C8F
1C8F

1C8F 06 01

1C9F 06 01

1C91 3A 0F 62

1C94 A7

1C95 C2 D2 1C

1C98 3A 02 62

1C9B 47

1C9C 3E 05

1C9C CD 09 30

1CA1 32 02 62

1CA4 E6 03

1CA6 F6 80

1CA8 C3 C2 1C

1CAB
1C8F
                                                                                                                                                                 ; CODE XREF: sub_0_1AC3+2F<sup>†</sup> j
                                  loc_0_1C8F:
                                                                                 b, #1
a, (unk_0_620F)
a
                                                                  ld
                                                                 ld
and
jp
ld
                                                                                 NZ, loc_0_1CD2
a, (unk_0_6202)
b, a
a, #5
                                                                 ld
ld
call
                                                                                  sub_0_3009
                                                                  1d
                                                                                  (unk_0_6202), a
                                                                  and
or
                                                                                   #0x80 ;
                                                                                  loc_0_1CC2
                                                                  qŗ
1CAB
1CAB
1CAB
1CAB
1CAB
1CAB 06 FF
1CAD 3A 0F 62
1CB0 A7
1CB1 C2 D2 1C
1CB4 3A 02 62
1CB7 47
1CB8 3E 01
1CB8 CD 09 30
1CBD 32 02 62
1CC0 E6 03
                                  loc_0_1CAB:
                                                                                                                                                                 ; CODE XREF: sub_0_1AC3+38 j
                                                                  ld
                                                                                 b, #0xFF
a, (unk_0_620F)
                                                                  ld
                                                                  and
jp
ld
                                                                                 a
NZ, loc_0_1CD2
a, (unk_0_6202)
                                                                                 b, a
a, #1
                                                                 ld
ld
call
                                                                                  sub_0_3009
                                                                                  (unk_0_6202), a
1CBD 32 02 62
1CC0 E6 03
1CC2
1CC2 2
1CC2 21 07 62
1CC5 77
1CC6 1F
1CC7 DC 8F 1D
1CCA 3E 02
1CCC 32 0F 62
1CCC 32 0F 62
1CCC C3 A6 1D
                                                                  ld
                                                                  and
                                                                                                                                                                 ; animate mario running
                                 loc_0_1CC2:
                                                                                                                                                                 ; CODE XREF: sub_0_1AC3+1E5 j
                                                                                 hl, #mario_flipy_sprite_tile
(hl), a
                                                                  ld
                                                                 ld
rra
call
                                                                                                                                                                 ; set amrio character
                                                                                  C, sub_0_1D8F
                                                                  ld
jp
                                                                                  (unk_0_620F), a
loc_0_1DA6
1CD2
1CD2
1CD2
1CD2 21 03 62
                                 loc_0_1CD2:
                                                                                                                                                                 ; CODE XREF: sub_0_1AC3+1D2<sup>†</sup>j; sub_0_1AC3+1EE<sup>†</sup>j
1CD2
1CD5 7E
1CD6 80
1CD7 77
                                                                                 hl, #mario_y_coord
a, (hl)
                                                                  ld
                                                                 ld
add
ld
                                                                                 a, (hl)
a, b
(hl), a
a, (level_type)
a
1CD8 3A 27 62
1CDB 3D
                                                                 ld
dec
1CD8 3A 27 62
1CDB 3D
1CDC C2 EB 1C
1CDF 66
1CE0 3A 05 62
1CE3 6F
1CE4 CD 33 23
1CE7 7D
                                                                                  NZ, loc_0_1CEB
                                                                  jp
ld
                                                                                  h, (hl)
                                                                 ld
ld
call
                                                                                  a, (mario_x_coord)
                                                                                  sub_0_2333
                                                                  ld
1CE7 7D
1CE8 32 05 62
                                                                                  a, 1
(mario_x_coord), a
                                                                  ld
                                                                                                                                                                 ; CODE XREF: sub_0_1AC3+219<sup>†</sup>j
                                  loc_0_1CEB:
1CEB 21 OF 62
1CEE 35
                                                                                  h1, #unk_0_620F (h1)
                                                                  ld
1CEF C3 A6 1D
1CF2
                                                                  jp
                                                                                  loc_0_1DA6
1CF2
1CF2
1CF2
1CF2 3A 0F 62
1CF5 A7
1CF6 C2 8A 1D
1CF9 3E 03
1CFB 32 0F 62
1CFE 3E 02
                                  loc_0_1CF2:
                                                                                                                                                                  ; CODE XREF: sub_0_1AC3+7A<sup>†</sup> j
                                                                                                                                                                  ; check timer
; expired?
                                                                  ld
                                                                                  a, (unk_0_620F)
                                                                  and
                                                                  jp
ld
ld
                                                                                 NZ, loc_0_1D8A
                                                                                                                                                                  ; no, skip
                                                                                  (unk_0_620F), a
                                                                                                                                                                 ; reset timer
                                                                  ld
1D00 C3 11 1D
1D03
1D03
                                                                                  loc_0_1D11
                                                                  jp
1D03
1D03 3A 0F 62
1D06 A7
1D07 C2 76 1D
1D0A 3E 04
1D0C 32 0F 62
1D0F 3E FE
                                                                                                                                                                  ; CODE XREF: sub 0 1AC3+871i
                                 loc 0 1D03:
                                                                 ld
and
                                                                                 a, (unk_0_620F)
                                                                                                                                                                 ; check timer
; expired?
                                                                                  NZ, loc_0_1D76
                                                                  jp
ld
                                                                                                                                                                  ; no, skip
                                                                                 a, #4
(unk_0_620F), a
a, #0xFE; '•
                                                                                                                                                                 ; reset timer
1D11
1D11
ID11
ID11 21 05 62
ID14 86
ID15 77
ID16 47
ID17 3A 22 62
ID1A EE 01
ID1C 32 22 62
ID1F C2 51 ID
ID22 78
ID23 C6 08
ID25 21 1C 62
ID28 BE
ID29 CA 67 ID
ID2C 2D
ID2D 96
ID2E CA 67 ID
                                                                                                                                                                 ; CODE XREF: sub 0 1AC3+23D1 j
                                 loc 0 1D11:
                                                                                 hl, #mario_x_coord
a, (hl)
(hl), a
                                                                  ld
                                                                 add
ld
                                                                                 b, a
a, (unk_0_6222)
#1
                                                                 ld
ld
                                                                  xor
ld
                                                                                  (unk_0_6222), a
                                                                 jp
ld
add
                                                                                 NZ, loc_0_1D51
a, b
a, #8
                                                                                 hl, #unk_0_621C
(hl)
Z, loc_0_1D67
                                                                  ld
                                                                  cp
                                                                                                                                                                 ; bottom y coordinate of ladder
; stop from climbing
                                                                                  (hl)
                                                                                                                                                                 ; top y coordinate of ladder
; stop from climbing
                                                                  sub
1D2D 96
1D2E CA 67 1D
1D31 06 05
1D33 D6 08
1D35 CA 3F 1D
1D38 05
1D39 D6 04
1D3B CA 3F 1D
1D3E 05
1D3F
1D3F
1D3F
1D3F
1D3F 3E 80
                                                                                  Z, loc_0_1D67
b, #5
                                                                  jp
ld
                                                                  sub
                                                                 jp
dec
sub
                                                                                 Z, loc_0_1D3F
```

; CODE XREF: sub\_0\_1AC3+272<sup>†</sup>j; sub\_0\_1AC3+278<sup>†</sup>j

jp dec

1d

loc\_0\_1D3F:

1D3F 3E 80

Z, loc\_0\_1D3F

a, #0x80 ; 'Ç'

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
1D41 21 07 62
                                                                       hl, #mario_flipy_sprite_tile
                                                         ld
1D44 A6
                                                         and
                                                                       (hl)
1D45 EE 80
1D47 B0
1D48 77
                                                                       #0x80 ; 'Ç'
                                                         xor
or
ld
                                                                                                                                            ; hflip mario
                                                                       b (hl), a
1D49
1D49
                             loc_0_1D49:
                                                                                                                                            ; CODE XREF: sub_0_1AC3+2A1|;
; flag mario climbing a ladder
1D49 3E 01
1D4B 32 15 62
1D4E C3 A6 1D
                                                         ld
                                                                       a, #1
(mario_climbing), a
                                                         ld
                                                         jр
                                                                       loc 0 1DA6
1D51
1D51
1D51
                             loc_0_1D51:
                                                                                                                                            ; CODE XREF: sub_0_1AC3+25C<sup>†</sup>j
1D51 1D52 2D 1D52 2D 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 1D67 1D67 1D67 1D67 3E 06 1D67 1D67 1D67 3C 06 62 1D69 32 07 62
                                                                      a, (hl)
                                                         ld
                                                         or
                                                         res
ld
ld
                                                                       a, (unk_0_6224)
                                                         xor
                                                                       "1
(unk_0_6224), a
Z, sub_0_1D8F
loc_0_1D49
                                                         ld
call
                                                         jр
                                                                                                                                            ; CODE XREF: sub_0_1AC3+266<sup>†</sup>j
; sub_0_1AC3+26B<sup>†</sup>j
; mario climbing character
                              loc_0_1D67:
                                                                       a, #6
(mario_flipy_sprite_tile), a
                                                         14
1D67
1D69 32 07 62
1D6C AF
1D6D 32 19 62
1D70 32 15 62
1D73 C3 A6 1D
1D76
1D76
                                                         ld
                                                         xor
ld
                                                                       (unk_0_6219), a
                                                                       (mario_climbing), a loc_0_1DA6
                                                         1d
                                                                                                                                            ; flaf not climbing a ladder
                                                         jp
1D76
1D76 3A 1A 62
1D79 A7
                             loc_0_1D76:
                                                                                                                                            ; CODE XREF: sub_0_1AC3+244↑j
                                                                       a, (unk_0_621A)
                                                         ld
                                                         and
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
                                                                       a
Z, loc_0_1D8A
                                                         jp
ld
ld
                                                                      Z, 10c_U_IDBA
(unk_0_6219), a
a, (unk_0_621C)
#0x13
hl, #mario_x_coord
(hl)
                                                         sub
                                                         ld
                                                         cp
ret
1D8A
                                                                                                                                            ; CODE XREF: sub_0_1AC3+233<sup>†</sup>j
; sub_0_1AC3+2B7<sup>†</sup>j
1D8A
                              loc 0 1D8A:
1D8A 21 OF 62
1D8A
                                                                       hl, #unk_0_620F
(hl)
                                                         ld
1D8D 35
                                                         dec
1D8E C9
                                                         ret
                              ; End of function sub_0_1AC3
1D8E
1D8F
1D8F
1D8F
1D8F
1D8F
                              ; SUBROUTINE
1D8F
1D8F 3E 03
1D8F
                                                                                                                                             ; CODE XREF: sub\_0\_1AC3+204\uparrow p; sub\_0\_1AC3+29E\uparrow p; tmr=3
                              sub_0_1D8F:
                                                         ld
ld
                                                                       a, #3
(digital_snd_tmr_walk), a
         32 80 60
1D94 C9
                                                         ret
                              ; End of function sub_0_1D8F
1D95
                                                       SUBROUTINE
1D95
1D95
1D95
1D95
1D95
                                                                                                                                            ; CODE XREF: sub_0_1A33+86<sup>p</sup>; sub_0_1AC3+1AD<sup>p</sup>
                             sub_0_1D95:
1D95
1D95
32 25 62
1D95
1D98 3A 27 62
                                                                       (unk_0_6225),
                                                         ld
                                                                       a, (level_type)
1D98 3A 27 62

1D98 3D 1D9C C8

1D9D 21 8A 60

1DA0 36 0D

1DA2 2C

1DA3 36 03

1DA5 C9

1DA5 1DA5

1DA6 1DA6

1DA6 1DA6
                                                         dec
                                                         ret
ld
                                                                       hl, #unk_0_608A
(hl), #0xD
                                                         ld
                                                                       (hl), #3
                                                         ret
                              ; End of function sub_0_1D95
                                                                                                                                            ; CODE XREF: sub_0_1AC3+A8<sup>†</sup>j; sub_0_1AC3+161<sup>†</sup>j ...
                             loc 0 1DA6:
1DA6
1DA6 21 4C 69
1DA6
1DA9 3A 03 62
1DAC 77
                                                                       hl, #soft_sprite_ram+0x4C
                                                         ld
ld
                                                                       a, (mario_y_coord)
(hl), a
                                                                       a, (mario_flipy_sprite_tile)
1DAD 3A 07 62
1DB0 2C
1DB1 77
                                                         ld
inc
ld
                                                                       (hl), a
                                                                       a, (mario_flipx_colour)
1
1DB2 3A 08 62
1DB5 2C
1DB6 77
1DB7 3A 05 62
                                                         ld
inc
ld
                                                                       (hl),
                                                                       a, (mario_x_coord)
1
                                                         ld
1DBA 2C
1DBB 77
1DBC C9
1DBD
                                                                       (hl), a
                                                         ret
1DBD
1DBD
1DBD
                                                        SUBROUTINE
1DBD
1DBD 3A 40 63
1DBD 1DC0 EF
1DC0
                                                                                                                                             ; CODE XREF: 0000:127C1p
                              sub_0_1DBD:
                                                                                                                                             ; 0000:1641<sup>p</sup> ...
                                                                      a, (unk_0_6340)
0x28
```

; qo!

; DATA XREF: sub\_0\_1DBD+6<sup>†</sup>o

rst

loc\_0\_1DC9:

.dw ret .dw loc\_0\_1DC9 .dw loc\_0\_1E4A .db 0; .db 0;

1DC0 1DC1 49 1E 1DC3 C9 1D 1DC5 4A 1E 1DC7 00 1DC8 00 1DC9

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
 1DC9 3E 40
                                                           ld
                                                                         a, #0x40
 1DCB 32 41 63
1DCE 3E 02
1DD0 32 40 63
1DD3 3A 42 63
                                                                         (unk_0_6341), a
                                                           ld
                                                          ld
ld
ld
                                                                        a, #2
(unk_0_6340), a
a, (unk_0_6342)
 1DD6 1F
1DD7 DA 70 3E
1DDA 1F
1DDB DA 00 1E
                                                           rra
                                                           jp
rra
                                                                        C, loc_0_3E70
                                                                        C, loc_0_1E00
                                                           jр
                                                           rra
jp
ld
ld
 1DDE 1F
1DDF DA F5 1D
1DE2 21 85 60
1DE5 36 03
                                                                        C, loc_0_1DF5
hl, #digital_snd_tmr_barrel_jump_priz
(hl), #3
                                                                                                                                               ; tmr=3
                                                                         a, (level)
1DE7 3A 29 62
1DEA 3D
1DEB CA 00 1E
                                                          ld
dec
                                                                         Z, loc_0_1E00
1DEE 3D 1DEF CA 08 1E 1DF2 C3 10 1E 1DF5 1DF5 1DF5 3A 18 60 1DF8 1F 1DF9 DA 00 15
 1DEE 3D
                                                                         Z, award_500_pts
award_800_pts
                                                           qį
qį
                              loc_0_1DF5:
                                                                                                                                               ; CODE XREF: sub_0_1DBD+22<sup>†</sup>j
                                                           ld
                                                                        a, (random_no)
                                                                                                                                                ; 50% chance for 500 pts
                                                           rra
 1DF9 DA 08 1E
                                                                                                                                                  award 500 pts
25% chance for 800 pts
award 800 pts
                                                           jp
rra
                                                                        C, award_500_pts
                                                                        C, award_800_pts
                                                           jр
 1E00
                                                                                                                                                ; CODE XREF: sub_0_1DBD+1E j
 1E00
                              loc_0_1E00:
                                                                                                                                               ; sub_0_1DBD+2E<sup>†</sup> j
; '300' sprite tile
; award 3 (300) points
 1E00 06 7D
1E00
                                                          ld
ld
                                                                         b, #0x7D ; '}'
 1E02 11 03 00
                                                                         award_points
 1E05 C3 15 1E
1E08
                                                           jp
                                                                                                                                                ; CODE XREF: sub_0_1DBD+32 j
                              award 500 pts:
 1E08
                                                                                                                                                ; sub_0_1DBD+3C<sup>†</sup> j
; '500' sprite tile
; award 5 (500) points
 1E08 06 7E
 1E08 06 7E
1E08
1E0A 11 05 00
1E0D C3 15 1E
                                                                        b, #0x7E ; '~'
de, #5
                                                           ld
ld
                                                                         award points
                                                           jр
                                                                                                                                               ; CODE XREF: sub_0_1DBD+35<sup>†</sup>j
; sub_0_1DBD+40<sup>†</sup>j
; '800' sprite tile
; add_bonus_and_update_high_score (800)
 1E10
1E10 06 7F
                              award 800 pts:
 1E10
1E12 11 08 00
                                                                        b, #0x7F ; ' ' de, #8
1E15
1E15 CD 9F 30
1E15
1E18 2A 43 63
                                                                                                                                                  CODE XREF: sub_0_1DBD+48 j
                              award_points:
                                                                                                                                                   sub_0_1DBD+50 | j
schedule award points
                                                                        queue_fg_vector_fn
hl, (unk_0_6343)
a, (hl)
                                                           call
                                                          ld
ld
ld
                                                                                                                                               ; ptr x position
; prize x position
; erase prize
; go to y position
1E18 2A 43 63
1E1B 7E
1E1C 36 00
1E1E 2C
1E1F 2C
1E20 2C
1E21 4E
1E22 C3 36 1E
                                                                         a, (hl)
(hl), #0
                                                           inc
                                                           inc
                                                                                                                                               ; get y position
; program award sprite
                                                           ld
                                                                             (hl)
                                                                         c, (hl)
loc_0_1E36
                                                           jр
1E25
1E25 11 01 00
1E28
                                                                                                                                                ; add_bonus_and_update_high_score (100)
                                                           ld
                                                                         de, #1
                                                                                                                                                ; CODE XREF: 0000:3E76|j
1E28
1E28 CD 9F 30
                              loc 0 1E28:
                                                                                                                                                ; 0000:3E7E - i
1E28 CD 9F 30
1E28
1E2B 3A 05 62
1E2E C6 14
1E30 4F
1E31 3A 03 62
1E34 00
1E35 00
1E36
                                                                        queue_fg_vector_fn
a, (mario_x_coord)
a, #0x14
                                                          call
ld
                                                                                                                                                ; schedule award points
                                                           add
                                                                        c, a
a, (mario_y_coord)
                                                           14
                                                           ld
                                                          nop
1E36
1E36 21 30 6A
1E39 77
1E3A 2C
1E3B 70
1E3C 2C
                                                                                                                                               ; CODE XREF: sub_0_1DBD+65<sup>†</sup>j ; add bonus points sprite to display
                              loc_0_1E36:
                                                                        hl, #soft_sprite_ram+0x130
                                                           ld
                                                                         (hl), a
                                                           ld
inc
                                                           ld
                                                                         (hl), b
                                                           inc
1E3C 2C
1E3D 36 07
1E3F 2C
1E40 71
1E41 3E 05
1E43 F7
1E44 21 85 60
1E47 36 03
1E49
                                                          ld
inc
ld
                                                                         (hl), #7
                                                                        1
(h1), c
a, #5
0x30
h1, #digital_snd_tmr_barrel_jump_priz
(h1), #3
                                                           ld
                                                           rst
ld
                                                                                                                                                ; return if level bit not set
                                                                                                                                               ; tmr=3
                                                           ld
 1E49
1E49 C9
                                                                                                                                                ; DATA XREF: sub_0_1DBD+4\uparrow o
                              ; End of function sub_0_1DBD
 1E49
1E49
 1E4A
1E4A
1E4A
                              loc_0_1E4A:
                                                                                                                                               ; DATA XREF: sub_0_1DBD+8↑o
1E4A 21 41 63
1E4D 35
1E4E C0
1E4F AF
                                                                        h1, #unk_0_6341
(h1)
NZ
                                                          1d
                                                          dec
                                                           xor
1E4F AF
1E50 32 30 6A
1E53 32 40 63
1E56 C9
1E57
1E57
1E57
                                                                         (soft_sprite_ram+0x130), a (unk_0_6340), a
                                                           1d
                                                          ret
                                                         S U B R O U T I N E
1E57

1E57 3A 27 62

1E5A CB 57

1E5C C2 80 1E

1E5E C2 80 1E

1E5E 1F

1E60 3A 05 62

1E63 DA 7A 1E

1E66 FE 51

1E68 DO

1E69 3A 03 62

1E6C 17
                                                                                                                                               ; CODE XREF: 0000:19891p
                              sub_0_1E57:
                                                                        a, (level_type)
                                                          ld
bit
                                                                        NZ, loc_0_1E80
                                                           jp
rra
                                                           ld
                                                                         a, (mario_x_coord)
C, loc_0_1E7A
                                                                        C, loc_0_1E
#0x51; 'Q'
                                                           jр
                                                           cp
ret
                                                                         NC
                                                                        a, (mario_y_coord)
```

; CODE XREF: sub\_0\_1E57+26|j

rla

loc\_0\_1E6D:

1E6D 1E6D

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
                                                                   a, #0
C, loc_0_1E74
a, #0x80; 'Ç
                                                      ld
1E6F DA 74 1E
                                                                                                                                     ; CODE XREF: sub_0_1E57+18†j
                            loc_0_1E74:
1E74 32 4D 69
1E77 C3 85 1E
                                                                   (soft_sprite_ram+0x4D), a
loc_0_1E85
                                                      ld
                                                      jр
1E7A
1E7A
                            loc 0 1E7A:
                                                                                                                                     ; CODE XREF: sub 0 1E57+C1 j
1E7A
1E7A FE 31
1E7C D0
1E7D C3 6D 1E
                                                      cp
ret
                                                                    #0x31 ; '1'
                                                                   loc_0_1E6D
                                                      jр
1E80
1E80
1E80
                            loc_0_1E80:
                                                                                                                                     ; CODE XREF: sub_0_1E57+5 j
1E80 3A 90 62
                                                      ld
                                                                   a. (unk 0 6290)
1E80 3A 90 62

1E83 A7

1E84 C0

1E85

1E85

1E85 3E 16

1E87 32 0A 60

1E8A E1
                                                      and
                                                                   NZ
                            loc 0 1E85:
                                                                                                                                    ; CODE XREF: sub 0 1E57+201i
                                                      1d
                                                                       #0x16
                                                      ld
                                                                     (main_sequencer), a
                                                                   hl
                                                      pop
1E8B C9
                                                      ret
1E8B
1E8B
                            ; End of function sub_0_1E57
1E8B
1E8C
1E8C
1E8C
1E8C
1E8C 3A 50 63
1E8F A7
1E90 C8
1E91 CD 96 1E
                                                     SUBROUTINE
                            sub_0_1E8C:
                                                                                                                                     ; CODE XREF: 0000:197D\p
                                                      1d
                                                                   a, (unk_0_6350)
                                                      and
                                                      ret
call
                                                                   sub 0 1E96
1E91 CD
1E94 E1
1E95 C9
1E95
1E95
                                                      pop
ret
                            ; End of function sub_0_1E8C
1E96
1E96
1E96
                                                    SUBROUTINE
1E96
1E96
1E96
1E96 3A 45 63
1E99 EF
1E99
                            sub_0_1E96:
                                                                                                                                     ; CODE XREF: sub_0_1E8C+5<sup>p</sup>
                                                                         (unk_0_6345)
                                                                   a, (1
0x28
                                                      rst
                                                                                                                                     ; go!
1E9A A0 1E
1E9C 09 1F
1E9E 23 1F
                                                       .dw loc_0_1EA0 .dw loc_0_1F09 .dw loc_0_1F23
                                                                                                                                     ; Jump table
1EA0
1EA0
1EA0
                           loc_0_1EA0:
                                                                                                                                     ; DATA XREF: sub_0_1E96+4↑o
1EAO 3A 52 63
1EA3 FE 65
1EA5 21 B8 69
1EA8 CA B4 1E
                                                                   a, (unk_0_6352)
#0x65 ; 'e'
hl, #soft_sprite_ram+0xB8
Z, loc_0_1EB4
                                                      1d
                                                                                                                                     ; hammer just hit something
                                                      cp
ld
                                                                                                                                     ; process hammer hit effect (start)
                                                      jp
ld
1EAB 21 D0 69
1EAE DA B4 1E
1EB1 21 80 69
1EB4
                                                                   hl, #soft_sprite_ram+0xD0
C, loc_0_1EB4
hl, #soft_sprite_ram+0x80
                                                                                                                                     ; fireball area in sprite ram
1EB4
                           loc_0_1EB4:
                                                                                                                                     ; CODE XREF: sub_0_1E96+12 j
1EB4 DD 2A 51 63
1EB4
                                                                                                                                      ; sub_0_1E96+18<sup>†</sup>j
                                                                   ix, (unk_0_6351)
1EB4
1EB8 16 00
1EBA 3A 53 63
1EBD 5F
1EBE 01 04 00
                                                      ld
ld
                                                                   d, #0
                                                                   a, (unle, a bc, #4
                                                                        (unk_0_6353)
                                                      ld
ld
                                                                   a, (unk_0_6354)
1EC1 3A 54 63
1EC4 A7
1EC5 CA CF 1E
1EC8
                                                      ld
                                                                   Z, loc_0_1ECF
                                                      jр
1EC8
1EC8 09
1EC9 DD 19
1ECB 3D
                           loc_0_1EC8:
                                                                                                                                    ; CODE XREF: sub 0 1E96+36-1
                                                      add
                                                                   hl, bc
                                                      add
                                                                   ix, de
                                                      dec
1ECC C2 C8 1E
1ECF
1ECF
                                                                   NZ, loc_0_1EC8
                                                      jp
                                                                                                                                     ; CODE XREF: sub_0_1E96+2F<sup>†</sup>j
                           loc_0_1ECF:
1ECF DD 36 00 00
                                                                   0(ix), #0
                                                      ld
                                                                   a, 0x15(ix)
a
1ECF DD 36 00
1ED3 DD 7E 15
1ED6 A7
1ED7 3E 02
1ED9 CA DE 1E
1EDC 3E 04
1EDE
                                                      ld
and
ld
                                                                   a
a, #2
Z, loc_0_1EDE
a, #4
                                                      jp
ld
IEDE
1EDE
1EDE 32 42 63
1EE1 01 2C 6A
1EE4 7E
1EE5 36 00
1EE7 02
1EE8 0C
1EE9 2C
1EEA 3E 60
                            loc 0 1EDE:
                                                                                                                                     ; CODE XREF: sub 0 1E96+431 j
                                                                    (unk 0 6342), a
                                                      ld
                                                                   (unk___0342), a
bc, #soft_sprite_ram+0x12C
a, (h1)
(h1), #0
(bc), a
                                                      ld
ld
ld
                                                      ld
inc
inc
ld
                                                                                                                                     ; flash sprite x coord
                                                                                                                                     ; initial hit sprite character ; flash sprite character
                                                                       , #0x60 ; '`'
1EEA 3E 60
1EEC 02
1EED 0C
1EEE 2C
1EEF1 02
1EF2 0C
1EF3 2C
1EF4 7E
1EF5 02
1EF6 21 45 63
1EF9 34
1EFA 2C
1EFA 2C
1EFA 3C 06
                                                      ld
inc
inc
                                                                   (bc), a
                                                                   a, #0xC
(bc), a
                                                      ld
                                                      ld
inc
inc
                                                      ld
                                                                        (hl)
                                                      ld
ld
                                                                   (bc), a
hl, #unk_0_6345
(hl)
                                                                                                                                    ; flash sprite y coord
                                                      inc
1EFA 2C

1EFB 36 06

1EFD 2C

1EFE 36 05

1F00 21 8A 60

1F03 36 06

1F05 2C
                                                      ld
                                                                    (hl), #6
                                                                    (hl), #5
                                                      ld
                                                      ld
ld
                                                                    hl, #unk_0_608A
(hl), #6
```

(hl), #3

1d

1F06 36 03

1F08 C9

```
1F08
                         ; End of function sub_0_1E96
1F08
1F09
1F09
1F09
; DATA XREF: sub_0_1E96+6†o ; process hammer hit effect (middle)
                         loc_0_1F09:
                                                            hl, #unk_0_6346
(hl)
                                                1d
                                                 dec
                                                 ret
ld
                                                            NZ
(hl), #6
                                                inc
dec
jp
ld
                                                            (h1)
                                                            Z, loc_0_1F1D
hl, #0x6A2D
                                                            a, (hl)
                                                 ld
                                                 xor
ld
                                                                                                                       ; animate hit flash
                                                            (hl), a
                                                 ret
                         loc_0_1F1D:
                                                                                                                      ; CODE XREF: 0000:1F12<sup>†</sup>j
                                                 ld
                                                            (h1), #4
                                                dec
                                                            1
(hl)
ret
                         loc_0_1F23:
                                                                                                                       ; DATA XREF: sub_0_1E96+81o
                                                            hl, #unk_0_6346
(hl)
                                                 ld
                                                                                                                       ; process hammer hit effect (end)
                                                dec
ret
ld
                                                            NZ (hl), #0xC
                                                inc
dec
jp
ld
                                                            (hl)
z, loc_0_1F34
hl, #soft_sprite_ram+0x12D
                                                                                                                       ; animate hit flash
                         loc_0_1F34:
                                                                                                                      ; CODE XREF: 0000:1F2C<sup>†</sup> †
                                                            1
                                                 dec
                                                 xor
                                                 ld
ld
                                                            (hl), a
(unk_0_6350), a
                                                                                                                      ; stop effect process
                                                 inc
ld
                                                             (unk 0 6340) a
                                                            (unk_0_6340), a
hl, #soft_sprite_ram+0x12C
(unk_0_6343), hl
                                                 ld
ld
                                                ret
                                                 SUBROUTINE
sub_0_1F46:
                                                                                                                      ; CODE XREF: 0000:19A41p
                                                 ld
                                                            a, (unk_0_6221)
                                                 and
                                                            Z
                                                ret
xor
ld
ld
ld
ld
ld
ld
                                                             unk_0_6204), a
                                                            (unk_0_6206), a
(unk_0_6221), a
                                                            (unk_0_6210)
(unk_0_6211)
                                                            (unk_0_6212), (unk_0_6213),
                                                             (unk_0_6214), a
                                                 inc
ld
                                                            a
  (mario_jumping), a
  (unk_0_621F), a
a, (mario_x_coord)
  (unk_0_620E), a
                                                 ld
ld
                                                 ld
                         ret; End of function sub_0_1F46
1F72
1F72
1F72
1F72
1F72 3A 27 62
1F75 3D
1F76 CO
1F77 DD 21 00 67
1F78 21 80 69
1F7E 11 20 00
1F81 06 0A
1F83
1F83
                                              SUBROUTINE
                                                                                                                      ; CODE XREF: 0000:1983 p
                         sub_0_1F72:
                                                ld
dec
                                                            a, (level_type)
                                                            a
NZ
                                                 ret
                                                 ld
                                                            ix, #unk 0 6700
                                                ld
ld
                                                            hl, #soft_sprite_ram+0x80
de, #0x20; '
                                                 ld
                                                            b, #0xA
1F83
1F83 DD 7E 00
1F86 3D
                         loc_0_1F83:
                                                                                                                      ; CODE XREF: sub_0_1F72+1E|j
                                                 ld
                                                            a, 0(ix)
1F83 DD 7E 00
1F86 3D
1F87 CA 93 1F
1F8A 2C
1F8B 2C
1F8C 2C
                                                 dec
                                                            Z, loc_0_1F93
                                                 jp
inc
inc
                                                            1
                                                 inc
1F8D
1F8D
1F8D
                         loc_0_1F8D:
                                                                                                                      ; CODE XREF: 0000:21CE|j
1F8E DD 19
1F90 10 F1
1F92 C9
1F93
1F93
1F93 DD 7E 01
1F96 3D 7E 02
1F97 CA EC 20
1F8E DD 19
                                                 add
                                                            ix, de
                                                djnz
ret
                                                            loc_0_1F83
                         loc_0_1F93:
                                                                                                                      ; CODE XREF: sub_0_1F72+15 j
                                                 ld
                                                            a, 1(ix)
                                                 dec
                                                            a
Z, loc_0_20EC
                                                jp
ld
rra
1F9A DD 7E 02
1F9D 1F
                                                jp
rra
jp
rra
1F9E DA AC 1F
                                                            C, loc_0_1FAC
1FA2 DA E5 1F
1FA5 1F
                                                            C, loc_0_1FE5
1FA6 DA EF 1F
1FA9 C3 53 20
                                                                loc_0_1FEF
                                                 qį
qį
                                                            loc_0_2053
```

```
1FAC
 1FAC
1FAC

1FAC

1FAC D9

1FAD DD 34 05

1FB0 DD 7E 17

1FB3 DD BE 05

1FB6 C2 CE 1F

1FB9 DD 7E 15

1FBC 07
                                     loc_0_1FAC:
                                                                                                                                                                                    ; CODE XREF: sub_0_1F72+2C<sup>†</sup>j
                                                                         exx
inc
ld
                                                                                           5(ix)
                                                                                          a, 0x17(ix)
5(ix)
NZ, loc_0_1FCE
a, 0x15(ix)
                                                                         cp
jp
ld
1FB9 DD 7E 15
1FBC 07
1FBB 07
1FBE C6 15
1FC0 DD 77 07
1FC3 DD 7E 02
1FC6 EE 07
1FC8 DD 77 02
1FC8 C3 BA 21
                                                                          rlca
                                                                         rlca
                                                                                                  #0x15
                                                                                                                                                                                    ; switch downwards (sideways) barrel to rolling barrel
                                                                                           a, #0x15
7(ix), a
                                                                          ld
                                                                                           a, 2(ix)
#7
                                                                         ld
xor
ld
                                                                                             2(ix),
                                                                                           loc 0 21BA
                                                                          jр
1FCB C3 BA 21
1FCE
1FCE
1FCE
1FCE
1FCE
1FD1 D7 F0 F1
1FD1 D0 F0 F0 F1
1FD5 DD F0 F0 F0
1FD8 EE 01
1FDA DD 77 07
1FDD 3E 04
1FDF
                                                                                                                                                                                    ; CODE XREF: sub_0_1F72+44<sup>†</sup> j ; sub_0_1F72+199<sup>‡</sup> j
                                      loc_0_1FCE:
                                                                         ld
dec
                                                                                           a, 0xF(ix)
                                                                                           a
NZ, loc_0_1FDF
a, 7(ix)
                                                                          jp
ld
                                                                                                                                                                                    ; animate sideways barrel sprite
                                                                          xor
ld
                                                                          ld
                                                                                           a, #4
 1FDF
1FDF
1FDF DD 77 OF
1FE2 C3 BA 21
                                      loc_0_1FDF:
                                                                                                                                                                                    ; CODE XREF: sub_0_1F72+60 j
                                                                                           0xF(ix), a
loc_0_21BA
                                                                          ld
                                                                          jр
1FE2 C3 BA 21
1FE5
1FE5
1FE5 D9
1FE6 01 00 01
1FE9 DD 34 03
1FEC C3 F6 1F
1FEF
                                      loc_0_1FE5:
                                                                                                                                                                                    ; CODE XREF: sub_0_1F72+30 j
                                                                          exx
                                                                                           bc, #0x100
3(ix)
loc_0_1FF6
                                                                         ld
inc
                                                                          jр
1FEF
1FEF
1FEF D9
1FFO 01 04 FF
1FF3 DD 35 03
1FF6
                                      loc_0_1FEF:
                                                                                                                                                                                     ; CODE XREF: sub_0_1F72+34 j
                                                                          exx
                                                                                           bc, #0xFF04
                                                                          ld
                                                                                            3(ix)
 1FF6
                                      loc 0 1FF6:
                                                                                                                                                                                    ; CODE XREF: sub 0 1F72+7A j
                                                                                           h, 3(ix)
1, 5(ix)
a, h
#7
 1FF6 DD 66 03
                                                                          14
1FF0 DD 66 03
1FF9 DD 6E 05
1FFC 7C
1FFD E6 07
                                                                         ld
ld
                                                                          and
 1FFF FE 03
2001 CA 5F 21
2004 2D
                                                                          cp
jp
                                                                                            Z, loc_0_215F
                                                                         dec
dec
dec
call
2004 2D
2005 2D
2006 2D
2007 CD 33 23
2008 2C
2008 2C
200C 2C
200C DD 77 05
2011 CD DE 30
2014 CD B4 24
2017 DD 7E 03
201A FE 1C
201C DA 2F 20
201F FE E4
2021 DA 2F 20
2024 AF
                                                                                           sub_0_2333
                                                                         inc
inc
inc
ld
ld
                                                                                           a, 1
5(ix),
                                                                         call
call
ld
                                                                                           sub_0_23DE
sub_0_24B4
a, 3(ix)
                                                                                           #0x10
                                                                         cp
jp
cp
jp
xor
ld
ld
                                                                                                loc_0_202F
                                                                                           #0xE4; 'ő'
C, loc_0_21BA
2024 AF
2025 DD 77 10
2028 DD 36 11 60
202C C3 38 20
                                                                                           0x10(ix), a
0x11(ix), #0x60; '`'
loc_0_2038
                                                                          jр
202F
202F
202F
202F
202F AF
                                    loc_0_202F:
                                                                                                                                                                                    ; CODE XREF: sub_0_1F72+AA j
202F AF
2030 DD 36 10 FF
2034 DD 36 11 AO
2038
2038 DD 36 12 FF
203C DD 36 13 FO
2040 DD 77 14
2043 DD 77 05
2046 DD 77 06
2040 DD 77 06
2040 DD 36 02 08
2050 C3 BA 21
                                                                         xor
                                                                                           0x10(ix), #0xFF
0x11(ix), #0xA0 ; 'á'
                                                                          1d
                                                                                                                                                                                    ; CODE XREF: sub 0 1F72+BA1 i
                                     loc_0_2038:
                                                                                           0x12(ix), #0xFF

0x13(ix), #0xF0; '-'

0x14(ix), a

0xE(ix), a

4(ix), a

6(ix), a
                                                                         ld
ld
ld
                                                                          ld
                                                                         ld
ld
                                                                          ld
                                                                                            2(ix)
                                                                                           loc 0 21BA
2053
2053
2053
                                      loc_0_2053:
                                                                                                                                                                                   ; CODE XREF: sub_0_1F72+37 j
2053 D9 2054 CD 9C 23 2054 CD 9C 2F 2A 205A A7 205B CZ 83 20 205E DD 7E 03 2061 C6 08 2063 FE 10 2068 CD B4 24 206B DD 7E 10 2066 E6 01 2070 07
                                                                         call
call
and
                                                                                           sub_0_239C
sub_0_2A2F
                                                                         jp
ld
add
                                                                                           NZ, loc_0_2083
a, 3(ix)
a, #8
                                                                         cp
jp
call
ld
and
                                                                                           #0x10
                                                                                           C, loc_0_2079
sub_0_24B4
                                                                                           a, 0x10(ix)
#1
                                                                          rlca
rlca
2072 4F
2073 CD DE 23
2076 C3 BA 21
2079
                                                                          ld
                                                                          call
                                                                                           sub_0_23DE
loc_0_21BA
                                                                          jp
 2079
 2079
                                      loc_0_2079:
                                                                                                                                                                                    ; CODE XREF: sub_0_1F72+F3<sup>†</sup>j
2079 AF
207A DD 77 00
207D DD 77 03
                                                                                           0(ix), a
                                                                          ld
                                                                          1d
                                                                                            3(ix)
                                                                                           loc_0_21BA
 2080 C3 BA 21
```

215F

```
2083
2083
2083
2083 DD 34 0E
2086 DD 7E 0E
                                  loc_0_2083:
                                                                                                                                                                   ; CODE XREF: sub_0_1F72+E9<sup>†</sup>j
                                                                   inc
ld
                                                                                   0xE(ix)
a, 0xE(ix)
 2089 3D
208A CA A2 20
208D 3D
208E CA C3 20
                                                                   dec
                                                                                   a
Z, loc_0_20A2
                                                                   jp
dec
jp
ld
                                                                                   a
Z, loc_0_20C3
208E CA C3 20
2091 DD 7 10
2094 3D 2095 3E 04
2097 C2 9C 20
209A 3E 02
209C 209C
209C DD 77 02
209C DD 77 02
20A2
20A2
20A2
                                                                                   a, 0x10(ix)
a
                                                                   dec
1d
                                                                                   a, #4
NZ, loc_0_209C
                                                                   jp
ld
                                                                                   a, #2
                                   loc_0_209C:
                                                                                                                                                                    ; CODE XREF: sub_0_1F72+125 j
                                                                                   2(ix), a
loc_0_21BA
                                                                   ld
20A2
20A2
20A2
DD 7E 15
20A5 A7
20A6 C2 B5 20
20A9 21 05 62
20AF D6 16
20B1 BE
20B2 D2 C3 20
                                   loc_0_20A2:
                                                                                                                                                                    ; CODE XREF: sub 0 1F72+118<sup>†</sup> i
                                                                   ld
and
                                                                                   a, 0x15(ix)
                                                                                   a
NZ, loc_0_20B5
                                                                   jp
ld
                                                                                   hl, #mario_x_coord
a, 5(ix)
#0x16
                                                                   ld
sub
                                                                                                                                                                    ; check har far mario has fallen when jumping
                                                                   ср
                                                                                   (h1)
                                                                   jp
                                                                                   NC, loc_0_20C3
20B2 D2 C3 20
20B5
20B5 DD 7E 10
                                  loc_0_20B5:
                                                                                                                                                                   ; CODE XREF: sub_0_1F72+134 j
                                                                                   a, 0x10(ix)
                                                                   ld
20B8 A7
20B9 C2 E1 20
20BC DD 77 11
20BF DD 36 10 FF
                                                                   and
jp
ld
                                                                                   NZ, loc_0_20E1
                                                                                   0x11(ix), a
0x10(ix), #0xFF
                                                                   ld
20C3
20C3
20C3 CD 07 24
20C3
                                                                                                                                                                    ; CODE XREF: sub_0_1F72+11C<sup>†</sup>j; sub_0_1F72+140<sup>†</sup>j ...
                                   loc_0_20C3:
                                                                                   sub 0 2407
                                                                   call
20C6 CB 3C
20C8 CB 1D
20CA CB 3C
20CC CB 1D
20CE DD 74 12
20D1 DD 75 13
                                                                   srl
                                                                   srl
                                                                   ld
ld
                                                                                   0x12(ix), h
0x13(ix), l
 20D4 AF
                                                                   xor
ld
                                                                                   a
0x14(ix), a
 20D4 AF
20D5 DD 77 14
20D8 DD 77 04
20DB DD 77 06
                                                                                   4(ix), a
6(ix), a
                                                                   ld
ld
                                                                                   loc 0 21BA
 20DE C3 BA 21
                                                                   jр
20E1
20E1
20E1
                                  loc_0_20E1:
                                                                                                                                                                    ; CODE XREF: sub_0_1F72+147<sup>†</sup> j
20E1 DD 36 10 01
20E5 DD 36 11 00
20E9 C3 C3 20
20EC
                                                                                   0x10(ix), #1
0x11(ix), #0
loc_0_20C3
                                                                   1d
                                                                   ld
                                                                   jр
20EC
20EC
20EC
20EC D9
20ED CD 9C 23
20F0 7C
20F1 D6 1A
20F3 DD 46 19
20F6 B8
                                   loc_0_20EC:
                                                                                                                                                                    ; CODE XREF: sub_0_1F72+25 j
                                                                                   sub_0_239C
                                                                   call
ld
                                                                                   a, h
#0x1A
b, 0x19(ix)
                                                                   sub
ld
                                                                   cp
jp
call
 20F6 B8
                                                                                   b
20F6 B8
20F7 DA 04 21
20FA CD 2F 2A
20FD A7
20FE C2 18 21
2101 CD B4 24
2104
2104
2104
                                                                                      . loc 0_2104
                                                                                   sub_0_2A2F
                                                                                   a
NZ, loc_0_2118
sub_0_24B4
                                                                   jp
call
                                   loc_0_2104:
                                                                                                                                                                  ; CODE XREF: sub_0_1F72+185<sup>†</sup>j
2104 DD 7E 03
2107 C6 08
2109 FE 10
                                                                                   a, 3(ix)
a, #8
#0x10
                                                                   1d
                                                                   add
cp
jp
xor
ld
ld
 2107 C6 08
2109 FE 10
210B D2 CE 1F
                                                                                   NC, loc 0 1FCE
210E AF
210F DD 77 00
2112 DD 77 03
2115 C3 BA 21
                                                                                   a
0(ix), a
                                                                                   3(ix), a loc_0_21BA
                                                                   jр
                                  loc_0_2118:
                                                                                                                                                                    ; CODE XREF: sub_0_1F72+18C<sup>†</sup>j
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
2128 AF
                                                                                  a, 5(ix)

#0xE0; 'Ó'

C, loc_0_2146

a, 7(ix)

#0xFC; '3'
                                                                   ld
                                                                   cp
jp
ld
and
                                                                                                                                                                    ; switch falling (sideways) barrel to rolling bounce barrel
                                                                   or
ld
                                                                                   #1
7(ix), a
212A AF
212B DD 77 01
212E DD 77 01
212E DD 77 02
2131 DD 36 10 FF
2135 DD 77 11
2138 DD 36 13 BO
213F DD 36 0E 01
2143 C3 53 21
2146
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
ld
                                                                   ld
ld
ld
                                                                                   loc 0 2153
                                                                   jр
                                  loc_0_2146:
                                                                                                                                                                   ; CODE XREF: sub_0_1F72+1AB j
                                                                                   sub_0_2407
sub_0_22CB
a, 5(ix)
0x19(ix), a
                                                                   call
                                                                   call
ld
                                                                   ld
2152 AF
2153
2153
                                                                   xor
                                   loc_0_2153:
                                                                                                                                                                   ; CODE XREF: sub_0_1F72+1D1 j
2153 DD 77 14
2156 DD 77 04
2159 DD 77 06
215C C3 BA 21
                                                                                   0x14(ix), a
                                                                   ld
                                                                   ld
ld
                                                                                   loc_0_21BA
                                                                   jр
 215F
```

```
loc_0_215F:
                                                                                                                                                              ; CODE XREF: sub_0_1F72+8F<sup>†</sup>j
215F
                                                                 ld
                                                                                a, 1
215F 7D
2160 C6 05
2162 57
2163 7C
2164 01 15 00
2167 CD 6D 21
216A C3 BA 21
                                                                 add
ld
ld
                                                                                a, #5
d, a
a, h
                                                                                bc, #0x15
                                                                 ld
                                                                 call
                                                                                 sub 0 216D
                                 jp loc_0_21BA
; End of function sub_0_1F72
216A
216D
216D
216D
                                                               SUBROUTINE
216D CD 6E 23

216D CD 6E 23

2170 3D 2172 78

2173 D6 05

2175 DD 77 17

2178 3A 48 63

2178 A7

2176 CA B2 21

2177 CA B2 21

2176 CA B2 21

2176 CA B2 21

2178 BA

2181 BA

2182 D6 04

2184 BA

2185 D8

2184 BA

2185 D8
                                 sub_0_216D:
                                                                                                                                                              ; CODE XREF: sub_0_1F72+1F5 p
                                                                 call
                                                                                sub_0_236E
                                                                 dec
                                                                ret
ld
                                                                                NZ
                                                                                a, b
#5
                                                                 sub
                                                                                0x17(ix),
                                                                 ld
                                                                                a, (unk_0_6348)
a
Z, loc_0_21B2
                                                                ld
and
                                                                 jp
ld
                                                                                     (mario_x_coord)
                                                                sub
cp
                                                                 ret
                                                                 14
                                                                                a, (unk_0_6380)
                                                                 rra
                                                                                a
b, a
                                                                 inc
ld
         3A 18 60
4F
218C 3A 18
218F 4F
2190 E6 03
2192 B8
                                                                ld
ld
and
                                                                                a, (random_no)
c, a
#3
                                                                 ср
2193 D0
2194 21 10 60
2197 3A 03 62
                                                                 ret
ld
ld
                                                                                NC
                                                                                hl, #controller_in
                                                                                a, (mario_y_coord)
e
                                                                cp
jp
jp
bit
219A BB
219A BB
219B CA B2 21
219E D2 A9 21
21A1 CB 46
21A3 CA AE 21
                                                                                e
Z, loc_0_21B2
NC, loc_0_21A9
0, (hl)
Z, loc_0_21AE
                                                                                                                                                               ; right?
                                                                 jp
jp
                                                                                                                                                               ; no, skip
21A6 C3 B2
21A9
                                                                                loc_0_21B2
21A9
                                                                                                                                                               ; CODE XREF: sub 0_216D+31 j
21A9
                                 loc 0 21A9:
21A9 CB 4E
21AB C2 B2 21
                                                                                1, (hl)
NZ, loc_0_21B2
                                                                                                                                                               ; left?
; yes, skip
                                                                 qį
21AE
21AE
21AE
                                 loc_0_21AE:
                                                                                                                                                               ; CODE XREF: sub_0_216D+36<sup>†</sup> j
                                                                                a, c
#0x18
21AF E6 18
                                                                 and
21B1 C0
21B2
21B2
21B2 DD 34 07
                                                                ret
                                                                                NZ.
                                                                                                                                                               ; CODE XREF: sub_0_216D+F<sup>†</sup>j; sub_0_216D+2E<sup>†</sup>j ...
                                 loc_0_21B2:
21B2
21B5 DD CB 02 C6
21B9 C9
                                                                                7(ix)
0, 2(ix)
                                                                                                                                                                   sprite tile #
switch rolling barrel to going-down-ladder barrel
                                 ; End of function sub_0_216D
21B9
21B9
                                                                                                                                                               ; CODE XREF: sub_0_1F72+59<sup>†</sup>j; sub_0_1F72+70<sup>†</sup>j ...
                                 loc_0_21BA:
21BA
21BA D9
21BA D3
21BA
21BB DD 7E 03
                                                                 exx
ld
                                                                                a, 3(ix)
(h1), a
                                                                                                                                                               ; set sprite X
21BE
                                                                 ld
21BF 2C
21C0 DD 7E 07
21C3 77
                                                                                1
a, 7(ix)
(h1), a
                                                                                                                                                               ; set sprite tile #
                                                                 ld
21C3 77
21C4 2C
                                                                 ld
ld
                                                                                    8(ix)
 21C5 DD 7E 08
                                                                                a, 8(ix (hl), a
                                                                                                                                                               ; set sprite vflip & palette
                                                                                l
a, 5(ix)
(hl), a
loc_0_1F8D
                                                                 inc
21CA DD 7E 05
21CD 77
21CE C3 8D 1F
                                                                 1d
                                                                                                                                                               ; set sprite Y
                                                                 jр
21CE
                                                                                                                                                               ; DATA XREF: next_attract_action o ; 1st byte is input, 2nd is timer
21D1 80 FE
                                 attract_mario_inputs:.dw 0xFE80
                                                                 .dw 0xC001
21D5 04 50
21D7 02 10
21D9 82 60
                                                                 .dw 0x5004
                                                                 .dw 0x1002
.dw 0x6082
21D9 82 60
21DB 02 10
21DD 82 CA
21DF 01 10
21E1 81 FF
21E3 02 38
21E5 01 80
21E7 02 FF
21E9 04 80
21EB 04 60
                                                                  .dw 0x1002
.dw 0xCA82
                                                                 .dw
.dw
.dw
                                                                        0x1001
0xFF81
0x3802
                                                                 .dw 0x8001
.dw 0xFF02
.dw 0x8004
                                                                  .dw 0x6004
21EB 04
21ED 80
21EE
21EE
                                                                 .db 0x80
                                                                SUBROUTINE 
21EE
21EE
21EE
21EE
21EE
11 D1 21
21F1 21 CC 63
21F4 7E
21F5 07
21F6 83
21F7 5F
21F8 1A
21F9 32 10 60
21FC 2C
21FD 7E
21FB 35
21FT 7E
21FB 35
21FT A7
2200 CO
21EE
                                                                                                                                                               ; CODE XREF: 0000:19771p
                                                                                de, #attract_mario_inputs
hl, #attract_movement_entry
                                                                 ld
                                                                 ld
                                                                                                                                                               ; get entry
; convert to word
; add to base
; ptr to entry
; lst byte of entry
; store simulated inputs
                                                                ld
rlca
                                                                                a, (hl)
                                                                                a, e
e, a
a, (de)
(controller_in), a
                                                                 add
1d
                                                                 ld
ld
                                                                 inc
                                                                ld
dec
and
                                                                                                                                                              ; get movement timer
; done?
                                                                                a, (
(hl)
                                                                                      (hl)
                                                                                NZ
                                                                                                                                                               ; no, return
; ptr 2nd byte of entry
2200 CO
2201 10
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
2202 1A
2203 77
2204 2D
2205 34
2206 C9
                                                                                                                                                                              get 2nd byte
store as timer
back to entry
next entry
                                                                      ld
                                                                                      a, (de)
(hl), a
                                                                      1d
                                                                     dec
inc
ret
                                                                                       (hl)
2206
2206
2207
2207
                                    ; End of function next_attract_action
                                    ; SUBROUTINE
2207
2207
2207
2207
2207
                                                                                                                                                                           ; CODE XREF: 0000:199Bp
                                    sub_0_2207:
          3E 02
                                                                     ld
                                                                                       a, #2
2207 3E 02
2209 F7
220A 3A 1A 60
220D 1F
220E 21 80 62
2211 7E
                                                                     rst
ld
                                                                                       0x30
                                                                                                                                                                           ; return if level bit not set
                                                                                       a, (gen_purpose_timer)
                                                                      rra
ld
                                                                                       hl, #unk_0_6280
220E 21 80 62
2211 7E
2212 DA 19 22
2215 21 88 62
2218 7E
2219
2219 E5
                                                                     ld
jp
ld
                                                                                      a, (h1)
C, loc_0_2219
h1, #unk_0_6288
a, (h1)
                                                                      ld
                                    loc_0_2219:
                                                                                                                                                                           ; CODE XREF: sub_0_2207+B<sup>†</sup> j
                                                                     push
                                                                                      hl
2219 E5
221A EF
221B 27
221C 22 59 22
221F 99
2220 22 A2 22
2223 00
2224 00
2225 00
                                                                                       0x28
                                                                      rst
                                                                                                                                                                           ; go!
                                                                      daa
ld
                                                                                       (loc_0_2259), hl
                                                                      sbc
                                                                                      a, c
(loc_0_22A2), hl
                                                                     ld
nop
nop
2226 00
2227 E1
2228 2C
2229 35
                                                                     nop
pop
inc
dec
                                                                                      hl
                                                                                       1
(hl)
2229 35

222A C2 3A 22

222D 2D 2D 222E 34

222F 2C 2230 2C 2231 CD 43 22

2234 3E 01 2236 32 1A 62

2239 C9 223A 2C 223E AF 2224 2C 2242 2242 2242 2242
                                                                      jp
dec
inc
                                                                                       NZ, loc_0_223A
                                                                                       1
(hl)
                                                                      inc
                                                                     inc
call
                                                                                       sub_0_2243
                                                                                      a, #1
(unk_0_621A), a
                                                                      ld
ld
                                                                                                                                                                           ; CODE XREF: sub 0 2207+231 i
                                    loc 0 223A:
                                                                      call
                                                                                       sub_0_2243
                                                                     xor
                                                                      ld
                                                                                       (unk_0_621A), a
                                                                      ret
                                    ; End of function sub_0_2207
2242
2243
2243
2243
                                                                    SUBROUTINE ...
2243 2243 2243 2243 2244 2244 2246 FE 7A 2248 D2 57 22 2248 A7 224F C2 57 2 2255 BE 2256 C8 2257 2257 E1 2257 E1 2257
                                                                                                                                                                           ; CODE XREF: sub_0_2207+2A\(^1\)p ; sub_0_2207+34\(^1\)p ...
                                    sub_0_2243:
                                                                      ld
                                                                                            (mario x coord)
                                                                     cp
jp
ld
                                                                                      NC, loc_0_2257
a, (mario_jumping)
                                                                      and
                                                                                      ..., roc_0_2257
a, (mario_y_coord)
(h1)
                                                                      jp
ld
                                                                      ср
                                                                     ret
                                    loc_0_2257:
                                                                                                                                                                           ; CODE XREF: sub_0_2243+5<sup>†</sup>j; sub_0_2243+C<sup>†</sup>j
2257
2258 C9
2258
2258
                                                                     pop
ret
                                                                                      hl
                                    ; End of function sub_0_2243
2259 *
2259 *
2259 *
2259 * E1
2258 2C
2252 2C
2252 2C
2252 35
225F C0
2262 37
2263 3D
2264 34
2265 CD BD 22
2264 34
2265 CD BD 22
2268 3E 78
2268 BC 27 75
2268 2C
2268 2D
2270 2D
2270 2D
2271 34
2272 2C
2273 2C
2275 2D
2276 2D
2277 2C
2275 2D
2276 2D
2277 2C
2275 2D
2276 2D
2277 3C
2275 2D
2276 CD 43 22
2275 2D
2276 CD 43 22
2275 2D
2276 CD 43 22
2277 3A 05 62
2270 E 68
                                   loc_0_2259:
                                                                                                                                                                           ; DATA XREF: sub_0_2207+15 w
                                                                     pop
inc
inc
                                                                                      hl
                                                                                       1 1 1
                                                                      inc
                                                                      inc
                                                                     dec
                                                                                       (hl)
NZ
                                                                                      NZ
a, #4
(hl), a
                                                                      ld
ld
                                                                     dec
inc
call
                                                                                       1
(hl)
                                                                                       sub_0_22BD
                                                                                      a, #0x78 ; 'x'
(hl)
                                                                     ld
cp
                                                                                       NZ, loc_0_2275
                                                                      jp
dec
                                                                     dec
dec
inc
                                                                                       l
(hl)
                                                                      inc
                                                                                                                                                                          ; CODE XREF: 0000:226B1i
                                    loc_0_2275:
```

dec call

ld inc call

inc ret

ld cp jp

loc\_0\_2281:

227E D2 8A 22 2281

2281 21 05 62 2284 34 2285 CD C0 3F

2281

2288 34 2289 C9

sub\_0\_2243 a, (mario\_x\_coord)
#0x68; 'h'

(h1)

NC, loc\_0\_228A

hl, #mario\_x\_coord (hl) sub\_0\_3FC0

; CODE XREF: 0000:228B-j

```
; CODE XREF: 0000:227E<sup>†</sup> j
2294 AF
2295
2295
2295 32 22 62
2298 C9
                                                                                            loc_0_2295:
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; CODE XREF: 0000:2291 j
                                                                                                                                                                                                                             (unk_0_6222), a
                                                                                                                                                                                   ret
 2299
2299 E1
229A 3A 18 60
229D E6 3C
                                                                                                                                                                                  pop
ld
                                                                                                                                                                                                                             a, (random_no)
#0x3C; '<'
229D E6 3C
229F C0
22AO 34
22A1 C9
22A2*
22A2*
22A2*
22A2*
22A4 2C
22A5 2C
22A6 2C
22A7 35
22A8 C0
22A9 36 02
22A9 36 02
22A9 36 02
22A9 35
22AB 2D
22AC 35
22AD BD
                                                                                                                                                                                   and
                                                                                                                                                                                  ret
inc
ret
                                                                                                                                                                                                                             (hl)
                                                                                            loc_0_22A2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; DATA XREF: sub_0_2207+19 w
                                                                                                                                                                                                                            hl
                                                                                                                                                                                   gog
                                                                                                                                                                                                                             1
1
1
                                                                                                                                                                                  inc
inc
inc
dec
                                                                                                                                                                                                                            1
(hl)
                                                                                                                                                                                  ret
ld
dec
                                                                                                                                                                                                                             NZ
(hl), #2
 22AC 35
22AD CD BD 22
22B0 3E 68
22B2 BE
                                                                                                                                                                                                                              (h1)
                                                                                                                                                                                   dec
                                                                                                                                                                                   call
ld
                                                                                                                                                                                                                              sub_0_22BD
                                                                                                                                                                                                                            a, #0x68; 'h'
(h1)
2280 BE 2283 CO 2284 AF 2285 OF 80 80 2287 2D 2288 2D 2288 2D 2288 2D 2288 CO 2280 CO 2880 CO 
                                                                                                                                                                                  cp
ret
xor
ld
                                                                                                                                                                                                                             ΝZ
                                                                                                                                                                                                                             a
b, #0x80 ; 'Ç'
                                                                                                                                                                                   dec
dec
                                                                                                                                                                                   ld
                                                                                                                                                                                                                              (hl), b
                                                                                                                                                                                   dec
                                                                                                                                                                                   1d
                                                                                                                                                                                                                             (hl), a
                                                                                                                                                                                  ret
                                                                                                                                                                                  SUBROUTINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; CODE XREF: 0000:2265<sup>p</sup>; 0000:22AD<sup>p</sup>
                                                                                           sub_0_22BD:
                                                                                                                                                                                  ld
bit
ld
                                                                                                                                                                                                                           a, (h1)
3, 1
de, #soft_sprite_ram+0x4B
                                                                                                                                                                                  jp
ld
                                                                                                                                                                                                                            NZ, loc_0_22C9
de, #soft_sprite_ram+0x47
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_22BD+61j
                                                                                            loc_0_22C9:
 22C9 12
22CA C9
22CA
22CA
                                                                                                                                                                                  ld
                                                                                                                                                                                                                             (de), a
                                                                                            ret; End of function sub_0_22BD
  22CB
                                                                                                                                                                                SUBROUTINE
22CB
22CB
22CB
22CB 3A 48 63
22CE A7
22CF CA E1 22
22D2 3A 80 63
22D5 3D
22D6 EF
                                                                                            sub_0_22CB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_1F72+1D7 p
                                                                                                                                                                                  ld
and
                                                                                                                                                                                                                             a, (unk_0_6348)
                                                                                                                                                                                                                           a
Z, loc_0_22E1
a, (unk_0_6380)
                                                                                                                                                                                   jp
ld
dec
                                                                                                                                                                                                                             a
0x28
                                                                                                                                                                                   rst
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; go!
22D6 EF
22D6
22D7 F6 22
22D9 F6 22
22D8 03 23
22DF 1A 23
22E1
22E1
22E1
22E1 3A 29
22E4 47
22E5 05
                                                                                                                                                                                   .dw loc_0_22F6
.dw loc_0_22F6
.dw loc_0_2303
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; Jump table
                                                                                                                                                                                    .dw loc_0_2303
.dw loc_0_231A
                                                                                            loc_0_22E1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; CODE XREF: sub_0_22CB+4<sup>†</sup> j
22E1 3A 29 62 22E4 47 22E5 05 22E6 3E 01 22E8 CA F9 22 22EB 05 22EC 2E A F9 22 22F1 3E E9 22F3 C3 F9 22 22F6 22F6 25 62 22F6 22F6 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 25 62 2
                                                                                                                                                                                                                          a, (level)
b, a
b
                                                                                                                                                                                  ld
ld
                                                                                                                                                                                  dec
ld
jp
dec
ld
                                                                                                                                                                                                                            a,
Z,
                                                                                                                                                                                                                                           loc_0_22F9
                                                                                                                                                                                                                             b
                                                                                                                                                                                                                                            #0xB1 ; '
                                                                                                                                                                                                                            a, #0xB1; '
Z, loc_0_22F9
a, #0xE9; 'Ú
loc_0_22F9
                                                                                                                                                                                   jр
 22F6
22F6
22F6
22F6
22F6 3A 18 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; DATA XREF: sub_0_22CB+C\u00f1o
; sub_0_22CB+E\u00f1o
                                                                                            loc_0_22F6:
 22F6
22F9
22F9
                                                                                                                                                                                  ld
                                                                                                                                                                                                                             a, (random_no)
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_22CB+1D\uparrow j; sub_0_22CB+23\uparrow j ...
                                                                                            loc_0_22F9:
22F9 DD 77 11
22F9 22FC E6 01
22FE 3D
                                                                                                                                                                                ld
and
dec
                                                                                                                                                                                                                             0x11(ix), a
  22FE 3D
22FF DD 77 10
                                                                                                                                                                                                                             0x10(ix), a
                                                                                                                                                                                   ld
 2302
2302
2302
2303
                                                                                            ret; End of function sub_0_22CB
 2303
2303
2303
2303 3A 18 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; DATA XREF: sub_0_22CB+10<sup>†</sup>o; sub_0_22CB+12<sup>†</sup>o
                                                                                            loc_0_2303:
 2303
2306 DD 77 11
2309 3A 03 62
                                                                                                                                                                                  ld
ld
ld
                                                                                                                                                                                                                             a, (random_no)
0x11(ix), a
a, (mario_y_coord)
                                                                                                                                                                                                                            a, (m
3(ix)
  230C DD BE 03
                                                                                                                                                                                   cp
ld
  230F 3E 01
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
 2311 D2 16 23
                                                                                                                              NC, loc_0_2316
                                                                                                      jр
 2314 3D
2315 3D
2316
2316
                                                                                                      dec
                                                                                                                                                                                                                                                        ; CODE XREF: 0000:2311<sup>†</sup>j
                                                     loc_0_2316:
2316 DD 77 10
2319 C9
231A
231A
                                                                                                                             0x10(ix), a
                                                                                                      ld
                                                                                                      ret
loc 0 231A:
                                                                                                                                                                                                                                                        ; DATA XREF: sub 0 22CB+14 o
                                                                                                                            a, (mario_y_coord)
3(ix)
c, #0xFF
C, loc_0_2326
                                                                                                      ld
                                                                                                     sub
ld
                                                                                                      jp
inc
                                                    loc 0 2326:
                                                                                                                                                                                                                                                       ; CODE XREF: 0000:23221i
                                                                                                      rlca
                                                                                                    rl
rlca
                                                                                                      rl
                                                                                                     ld
ld
                                                                                                                              0x10(ix), c
0x11(ix), a
                                                                                                     ret
                                                                                                      SUBROUTINE
                                                                                                                                                                                                                                                        ; CODE XREF: sub_0_1AC3+221\p ; sub_0_1F72+95\p ...
                                                     sub_0_2333:
                                                                                                                             a, #0xF
                                                                                                      ld
                                                                                                      and
2335 A4
2336 05
2337 CA 42 23
233A FE 0F
233C D8
233D 06 FF
233F C3 47 23
2342
                                                                                                                             b
Z, 1
#0xF
                                                                                                      dec
                                                                                                      jp
                                                                                                                                     loc_0_2342
                                                                                                      ср
                                                                                                      ret
                                                                                                      1d
                                                                                                                              b, #0xFF
                                                                                                      jp
                                                                                                                               loc_0_2347
2342
2342
2342 FE 01
2344 D0
2345 06 01
2347
2347
2347 3E F0
                                                    loc_0_2342:
                                                                                                                                                                                                                                                        ; CODE XREF: sub 0 2333+41 j
                                                                                                      ср
                                                                                                      ret
                                                                                                                              NC
b, #1
                                                                                                      ld
                                                     loc_0_2347:
                                                                                                                                                                                                                                                        ; CODE XREF: sub_0_2333+C<sup>†</sup>j
                                                                                                                             a, #0xF0 ; '-'
                                                                                                      ld
                                                                                                      cp
jp
ld
 2349 BD
 2349 BD
234A CA 60 23
234D 3E 4C
234F BD
                                                                                                                             Z, loc_0_2360
a, #0x4C; 'L
                                                                                                     cp
jp
ld
234F BD
2350 CA 66 23
2353 7D
2354 CB 6F
2356 CA 5C 23
2359
2359
2359 90
                                                                                                                              Z, loc_0_2366
                                                                                                      bit
                                                                                                                             Z, loc_0_235C
                                                                                                      jp
                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_2333+2F|j
                                                    loc_0_2359:
                                                                                                                             b
                                                                                                      sub
2359 90
235A
235A
235A 6F
235B C9
235C
235C
235C
235C
                                                     loc_0_235A:
                                                                                                                                                                                                                                                        ; CODE XREF: sub_0_2333+2A j
                                                                                                      ld
                                                                                                                              1, a
                                                                                                      ret
                                                                                                                                                                                                                                                        ; CODE XREF: sub_0_2333+23†j; sub_0_2333+38|j
                                                     loc_0_235C:
                                                                                                      add
                                                                                                                                    . b
 235D C3 5A 23
2360
                                                                                                                               loc_0_235A
                                                                                                      jp
2360 2360 2360 CB 7C 2362 C2 59 23 2365 C9 2366 2366 2366 7C 2367 FE 98 2369 D8 2368 7D 2368 C3 5C 23 
                                                                                                                                                                                                                                                        ; CODE XREF: sub_0_2333+17<sup>†</sup> j
                                                     loc_0_2360:
                                                                                                                             7, h
NZ, loc_0_2359
                                                                                                      jр
                                                                                                      ret
                                                     loc_0_2366:
                                                                                                                                                                                                                                                        ; CODE XREF: sub_0_2333+1D<sup>†</sup> j
                                                                                                                               a, h
#0x98 ; 'ÿ'
                                                                                                      1d
                                                                                                     cp
ret
                                                                                                                               a, 1
                                                                                                      ld
 236B C3 5C 23
236B
236B
                                                     jp loc_0_235C
; End of function sub_0_2333
 236E
 236E
236E
                                                                                                 SUBROUTINE
 236E
236E
                                                                                                                                                                                                                                                        ; CODE XREF: sub 0 1AC3+50 p
                                                     sub 0 236E:
 236E 21 00 63
236E
2371
                                                                                                                                                                                                                                                        ; sub_0_216D\p ...
                                                                                                                             hl, #unk_0_6300
                                                                                                     ld
 2371
2371 ED B1
2373 C2 9A 23
2376 E5
                                                     loc_0_2371:
                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_236E+1E|j
                                                                                                      cpir
                                                                                                                              NZ, loc_0_239A
                                                                                                      jp
push
                                                                                                                              hl
2376 E5
2377 C5
2378 01
237B 09
237C 0C
237D 5F
237E 7A
237F BE
                                                                                                     push
ld
add
                                                                                                                             bc
bc, #0x14
hl, bc
                        14 00
                                                                                                     inc
ld
ld
                                                                                                                             c
e, a
a, d
(hl)
```

cp jp add cp jp ld ld

pop

pop

add

loc 0 238F:

hl

Z, loc\_0\_238F hl, bc (hl) Z, loc\_0\_2395 d, a

loc\_0\_2371

hl, bc

; CODE XREF: sub 0 236E+12|j

237F BE
2380 CA 8F 23
2383 09
2384 BE
2385 CA 95 23
2388 57
2389 7B
238A C1
238B E1

C3 71 23

238B E1 238C C3 238F 238F

238F 238F 09

```
Page: 53
```

```
; CODE XREF: sub_0_1AC3+11C\p; sub_0_1F72+151\p ...
                                 sub 0 2407:
2407 DD 7E 14
2407
240A 07
                                                               ld
rlca
                                                                               a, 0x14(ix)
240B 07
240C 07
240D 07
240E 4F
                                                                rlca
rlca
rlca
                                                                               c, a
#0xF
h, a
240E 4F
240F E6 0F
2411 67
2412 79
2413 E6 F0
2416 6F
2416 DD 4E 13
2419 DD 46 12
241C ED 42
241E C9
241E
241F
241F
241F
241F
241F
                                                                ld
                                                                and
                                                                ld
ld
                                                                                #0xF0 ; '-'
                                                                and
                                                                               1, a
c, 0x13(ix)
b, 0x12(ix)
                                                                1d
                                                                ld
                                                                sbo
                                                                               hl, bc
                                 ret; End of function sub_0_2407
                                                              SUBROUTINE
                                                                                                                                                             ; CODE XREF: sub_0_1AC3+23^{\uparrow}p; sub_0_1AC3+102^{\uparrow}p ...
241F
                                 sub_0_241F:
241F 11 00 01
241F
                                                                               de, #0x100
                                                                ld
241F
2422 3A 03 62
2425 FE 16
                                                                1d
                                                                               a, (mario_y_coord)
#0x16
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
2427 D8
                                                         ret
2428 15
2429 1C
242A FE EA
242C D0
                                                                      d
                                                         dec
                                                         inc
                                                                      e
#0xEA ; 'Û'
NC
                                                         cp
ret
242C D0
242D 1D
242E 3A 27 62
2431 0F
2432 D0
2433 3A 05 62
2436 FE 58
2438 D0
2439 3A 03 62
243C FE 6C
243E D0
243F 14
2440 C9
                                                                      e
a, (level_type)
                                                         dec
ld
                                                         rrca
                                                                      NC
                                                         ret
                                                                      a, (mario_x_coord)
#0x58; 'X'
                                                         ld
                                                        cp
ret
ld
                                                                      NC
a, (mario_y_coord)
#0x6C; '1'
                                                         cp
ret
                                                         inc
ret
                             ; End of function sub_0_241F
                                                       SUBROUTINE
                                                                                                                                          ; CODE XREF: 0000:0D62<sup>p</sup>; anti-tamper check?
                            sub 0 2441:
                                                         ld
                                                                      hl, #aNINTENDO+1
                                                                      a, #0x5E;
b, #6
                                                                                                                                          ; CODE XREF: sub 0 2441+9-1
                             loc_0_2448:
                                                                      a, (hl)
                                                         add
                                                                      loc_0_2448
                                                         djnz
244C FD 21 10 63
2450 A7
2451 CA 56 24
2454 FD 23
                                                        ld
and
                                                                      iy, #unk_0_6310
                                                                       Z, loc_0_2456
                                                         jр
                                                         inc
2454 FD 23
2456 3A 27 62
2456 3D 62
2459 3D 62
2459 3D 72
2450 CA 71 24
2460 3D 72
2461 21 5D 3B
2461 21 5D 3B
2464 CA 71 24
2467 3D 72
2468 21 E5 3B
2468 CA 71 24
                             loc_0_2456:
                                                                                                                                          ; CODE XREF: sub_0_2441+10 j
                                                         ld
                                                                      a, (level_type)
                                                        dec
ld
                                                                      hl, #barrel_level_tilemap_data
Z, loc_0_2471
                                                         jр
                                                                      hl, #cement_pie_level_tilemap_data Z, loc_0_2471
                                                         ld
                                                        jp
dec
                                                                      hl, #elevator_level_tilemap_data
Z, loc_0_2471
hl, #rivet_level_tilemap_data
2468 21 E5 3B
246B CA 71 24
246E 21 8B 3C
2471
2471 DD 21 00 63
2471 DD 21 00 63
2471 2475 11 05 00
                                                                                                                                          ; CODE XREF: sub_0_2441+1C<sup>†</sup>j; sub_0_2441+23<sup>†</sup>j ...
                             loc_0_2471:
                                                                      ix, #unk_0_6300
de, #5
                                                         ld
2478
2478
2478
2478 7E
2478
                            loc_0_2478:
                                                                                                                                          ; CODE XREF: sub_0_2441+44|j; sub_0_2441+5A|j ...
                                                                      a, (hl)
ld
                                                                      a
Z, loc_0_2488
                                                         and
                                                        jp
dec
jp
cp
ret
add
                                                                           loc_0_249E
                                                                       #0xA9 ;
                                                                      loc_0_2478
                                                         jр
                             loc_0_2488:
                                                                                                                                          ; CODE XREF: sub_0_2441+39 j
                                                         inc
                                                                      hl
                                                                      a, (hl)
0(ix), a
                                                                           (hl)
                                                         ld
ld
                                                         inc
                                                                      n:
a, (hl)
0x15(ix), a
248E 7E
248F DD 77 15
2492 23
2493 23
                                                         1d
                                                         ld
                                                         inc
                                                                      hl
2494 7E
2495 DD 77 2A
2498 DD 23
249A 23
                                                         1d
                                                         inc
                                                                      ix
hl
                                                         inc
249B C3 78 24
249E
249E
                                                                      loc_0_2478
249E
249E 23
249F 7E
                             loc_0_249E:
                                                                                                                                          ; CODE XREF: sub_0_2441+3Dfj
                                                        inc
ld
                                                                      a, (hl)
0(iy), a
24A0 FD 77 00
24A3 23
24A4 7E
                                                         ld
inc
24A3 23
24A4 7E
24A5 FD 77 15
24A8 23
24A9 23
24AA 7E
24AB FD 77 2A
24AE FD 23
                                                                      a, (hl)
0x15(iy), a
                                                         ld
ld
                                                         inc
                                                                      hl
                                                         inc
                                                                      hl
                                                                      a, (hl)
0x2A(iy), a
                                                         ld
                                                         ld
                                                         inc
                                                                      iy
hl
24B0 23
24B1 C3 78 24
24B1
                                                         inc
                                                                       loc_0_2478
                                                         jр
                             ; End of function sub_0_2441
24B1
24B4
24B4
24B4
                                                      SUBROUTINE
24B4
24B4 DD 7E 05
                                                                                                                                           ; CODE XREF: sub_0_1F72+A2\uparrow p; sub_0_1F72+F6\uparrow p ...
                             sub_0_24B4:
                                                                      a, 5(ix)
#0xE8; 'b'
24B4
24B7 FE E8
                                                         ld
                                                        cp
ret
24B9 D8
24BA DD 7E 03
```

a, 3(ix) #0x2A; '\*'

#0x20 ; ' '

a, 0x15(ix)

cp ret cp ret

1d

24BD FE 2A 24BF D0 24C0 FE 20 24C2 D8

24C6 A7

24C3 DD 7E 15

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
 24C7 CA D0 24
                                                                   Z, loc_0_24D0
 24CA 3E 03
24CC 32 B9 62
24CF AF
24D0
                                                      ld
                                                                   (unk_0_62B9), a
                                                      1d
 24D0
                            loc_0_24D0:
                                                                                                                                    ; CODE XREF: sub 0 24B4+13 j
                                                                  0(ix), a
3(ix), a
hl, #digital_snd_tmr_thump
(hl), #3
 24D0 DD 77 00
24D3 DD 77 03
24D6 21 82 60
24D9 36 03
                                                      14
                                                      ld
ld
                                                      ld
                                                                                                                                    ; tmr=3
 24DB E1
24DC 3A 48 63
24DF A7
                                                      pop
ld
                                                                   a, (unk_0_6348)
                                                      and
24DF A7
24E0 C2 BA 21
24E3 3C
24E4 32 48 63
24E7 C3 BA 21
24E7
24E7
24EA
                                                      jp
inc
                                                                   NZ, loc_0_21BA
                                                      ld
                                                                   (unk_0_6348), a
loc_0_21BA
                            jp loc_(
; End of function sub_0_24B4
                                                    SUBROUTINE
 24EA
 24EA
24EA
24EA
                                                                                                                                    ; CODE XREF: 0000:1992 p
                            sub 0 24EA:
a, #2
0x30
sub_0_2523
                                                      ld
                                                      rst
call
                                                                                                                                    ; return if level bit not set
                                                                   sub_0_2591
ix, #unk_0_65A0
b, #6
hl, #soft_sprite_ram+0xB8
                                                      call
                                                      14
                                                      ld
ld
                                                                                                                                    ; 6 sprites to update
 24FC DD 7E 00
24FF A7
2500 CA 1C 25
                            loc_0_24FC:
                                                                                                                                    ; CODE XREF: sub 0 24EA+2F-j
                                                      ld
                                                                   a, 0(ix)
                                                      and
                                                                   a
Z, loc_0_251C
                                                      jp
ld
ld
 2500 CA 1C 23
2503 DD 7E 03
2506 77
2507 2C
                                                                   a, 3(ix)
(hl), a
                                                                                                                                    ; sprite X
                                                                  1
a, 7(ix)
                                                      inc
ld
                                                                  a, 7(ix (hl), a
 2508 DD 7E 07
                                                                                                                                    ; sprite tile #
                                                      ld
inc
 250B 77
250C 2C
250D DD 7E 08
                                                                     8(ix)
                                                                  a, 8(1x
(hl), a
                                                                                                                                    ; sprite v flip & palette
2510 77
2511 2C
2512 DD 7E 05
2515 77
2516 2C
2517 DD 19
2519 10 E1
251B C9
251C
251C
251C 7D
251C 7D
251C 7D
251D C6 04
251F 6F
 2510
                                                      ld
                                                                  1
a, 5(ix)
                                                      inc
                                                                   a, 5(ix (hl), a
                                                                                                                                    ; sprite Y
                                                      ld
                            loc_0_2517:
                                                                                                                                    ; CODE XREF: sub_0_24EA+36 | j
                                                      add
                                                                   ix, de
                                                      djnz
ret
                                                                   loc_0_24FC
                            loc_0_251C:
                                                                                                                                    ; CODE XREF: sub_0_24EA+16 j
                                                                  a, 1
a, #4
1, a
                                                      add
 251F 6F
2520 C3 17 25
2520
                                                      ld
                            jp loc_
; End of function sub_0_24EA
                                                                         _0_2517
 2523
2523
2523
2523
2523
2523
2523
2523
2526 7E
2527 A7
2528 C2 8F 25
2528 3A 9A 63
252E A7
252F C8
                                                     SUBROUTINE
                            sub_0_2523:
                                                                                                                                    ; CODE XREF: sub_0_24EA+31p
                                                                  hl, #unk_0_639B
a, (hl)
                                                      ld
ld
                                                      and
                                                                   NZ, loc_0_258F
a, (unk_0_639A)
                                                      jp
ld
                                                      and
                                                      ret
ld
ld
ld
 252F C8
2530 06 06
2532 11 10 00
2535 DD 21 A0 65
                                                                   b, #6
de, #0x10
ix, #unk_0_65A0
2535 DD 21 AU 65
2539
2539 DD CB 00 46
253D CA 45 25
2540 DD 19
2542 10 F5
2544 C9
                            loc_0_2539:
                                                                                                                                    ; CODE XREF: sub_0_2523+1F|j
                                                      bit
                                                                   0, 0(ix)
                                                                   Z, loc_0_2545
                                                      jp
add
                                                                   ix, de
loc_0_2539
                                                      djnz
                                                      ret
2544 C9
2545
2545
2545 CD 57 00
2548 FE 60
254A DD 36 05 7C
254E DA 58 25
2551 3A A3 62
2554 3A A3 62
                                                                                                                                    ; CODE XREF: sub_0_2523+1A<sup>†</sup> j
                            loc_0_2545:
                                                      call
                                                                   rand
                                                                   #0x60 ; '`'
                                                      cp
ld
jp
ld
                                                                   5(ix), #0x7C; '|'
C, loc_0_2558
a, (unk_0_62A3)
 2554 3D
2555 C2 6E 25
2558
2558
                                                      dec
                                                                   NZ, loc_0_256E
                           loc_0_2558:
                                                                                                                                    ; CODE XREF: sub 0 2523+2B1 i
 2558 DD 36 05 CC
255C 3A A6 62
255F 07
                                                                   5(ix), #0xCC; '|-
                                                      1d
                                                                   a, (unk_0_62A6)
                                                      rlca
 2560
                            loc_0_2560:
                                                                                                                                   ; CODE XREF: sub_0_2523+50 | j
 2560 DD 36 03 07
2564 D2 76 25
2567 DD 36 03 F8
256B C3 76 25
256E
                                                                   3(ix), #7
NC, loc_0_2576
3(ix), #0xF8; '0'
                                                      ld
                                                      jp
ld
                                                                   loc_0_2576
 256E
                                                                                                                                    ; CODE XREF: sub_0_2523+321j
 256E
                            loc 0 256E:
 256E CD 57 00
2571 FE 68
2573 C3 60 25
                                                      call
                                                                   rand
#0x68 ; 'h'
```

ср

1d

loc\_0\_2576:

2576 DD 36 00 01

loc 0 2560

0(ix), #1

; CODE XREF: sub\_0\_2523+41<sup>†</sup> j ; sub\_0\_2523+48<sup>†</sup> j

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
 257A DD 36 07 4B
                                                                        7(ix), #0x4B ; 'K'
                                                           ld
                                                                                                                                              ; cement pie sprite tile
257E DD 36 09 08
2582 DD 36 0A 03
2586 3E 7C
2588 32 9B 63
                                                                        9(ix), #8

0xA(ix), #3

a, #0x7C; '|'

(unk_0_639B), a
                                                           ld
                                                          ld
ld
ld
 258B AF
258C 32 9A 63
258F
258F
                                                           xor
                                                           ld
                                                                        (unk_0_639A), a
                             loc_0_258F:
                                                                                                                                              ; CODE XREF: sub_0_2523+5 j
 258F 35
                                                          dec
                                                                        (hl)
 2590 C9
2590
2590
                              ret; End of function sub_0_2523
 2591
                                                        SUBROUTINE
 2591
2591
2591 DD 21 A0 65
2595 11 10 00
2598 06 06
                              sub_0_2591:
                                                                                                                                              ; CODE XREF: sub_0_24EA+61p
                                                          ld
ld
                                                                        ix, #unk_0_65A0
de, #0x10
b, #6
2598 06 06

259A loc_0_259A:

259A DD CB 00 46

259E CA BB 25

25A1 DD 7E 03

25A4 67

25A5 C6 07

25A7 FE 0E

25A9 DA D6 25

25AC DD 7E 05

25AC DD 7E 05

25AF FE 7C

25B1 CA C0 25
                                                           ld
                                                                                                                                              ; CODE XREF: sub_0_2591+2C|j
                                                          bit
                                                                        0, 0(ix)
                                                                        Z, loc_0_25BB
a, 3(ix)
h, a
a, #7
                                                           jp
ld
ld
                                                           add
                                                           cp
jp
ld
                                                                        #0XE
C, loc_0_25D6
a, 5(ix)
#0x7C; '|'
Z, loc_0_25C0
a, (unk_0_63A6)
                                                          cp
jp
ld
25B1 CA CO 25
25B4 3A A6 63
25B7 84
25B8 DD 77 03
                                                           add
                                                                        a, h
3(ix), a
                                                           1d
25BB 25BB DD 19
                                                                                                                                               ; CODE XREF: sub_0_2591+D<sup>†</sup> j ; sub_0_2591+42<sup>†</sup> j ...
                              loc_0_25BB:
255BB 10 DB 25BF C9 25C0 25C0 25C0 7C 25C1 FE 80 25C6 3A A5 63 25C9 D2 CF 25C 3A A4 63 25C9 D2 CF 25CF 25CF 84 25D0 DD 77 03
                                                                        ix, de
loc_0_259A
 25BB
                                                           add
                                                          djnz
ret
                              loc_0_25C0:
                                                                                                                                              ; CODE XREF: sub_0_2591+20↑j
                                                                        a, h

#0x80; 'C'

Z, loc_0_25D6

a, (unk_0_63A5)

NC, loc_0_25CF
                                                           ld
                                                          cp
jp
ld
                                                           jp
1d
                                                                        a, (unk_0_63A4)
                              loc_0_25CF:
                                                                                                                                              ; CODE XREF: sub_0_2591+38 j
                                                           add
25CF 84
25D0 DD 77 03
25D3 C3 BB 25
25D6
25D6
                                                                        a, h
3(ix),
                                                           1d
                                                                        loc_0_25BB
                                                           jp
                                                                                                                                              ; CODE XREF: sub_0_2591+18<sup>†</sup>j; sub_0_2591+32<sup>†</sup>j
25D6
25D6 21 B8 69
25D6
25D9 3E 06
                              loc_0_25D6:
                                                                        hl, #soft_sprite_ram+0xB8
25D9 3E 06
25DB 90
                                                           ld
                                                                        a, #6
b
                                                           sub
25DB 50
25DC
25DC CA E7 25
                                                                                                                                              ; CODE XREF: sub_0_2591+53|j
                              loc_0_25DC:
                                                           jp
inc
inc
inc
                                                                        Z, loc_0_25E7
25DF 2C
25E0 2C
25E1 2C
25E2 2C
                                                                        1
                                                           inc
 25E3
         3D
25E3 3D
25E4 C3 DC 25
25E7
25E7
25E7
25E7 AF
                                                                         loc_0_25DC
                                                           jр
                              loc_0_25E7:
                                                                                                                                              ; CODE XREF: sub_0_2591+4B<sup>†</sup>j
25E7
25E7 AF
25E8 DD 77 00
25EB DD 77 03
25EE 77
25EF C3 BB 25
                                                           xor
                                                                        a
0(ix), a
                                                           ld
                                                                        3(ix), a
(h1), a
loc_0_25BB
                                                           ld
                                                           ld
                                                           jр
                              ; End of function sub_0_2591
25EF
25EF
25F2
25F2
25F2
25F2
25F2
25F2 3E 02
25F4 F7
 25EF
                              ; SUBROUTINE
                                                                                                                                              ; CODE XREF: 0000:19AA↑p
                              sub_0_25F2:
                                                                        a, #2
0x30
                                                           ld
                                                                                                                                              ; return if level bit not set
                                                           rst
 25F4 F7
25F5 CD 02 26
25F8 CD 2F 26
25FB CD 79 26
                                                                        sub_0_2602
sub_0_262F
sub_0_2679
                                                          call
                                                           call
25FE CD D3 2A
2601 C9
2601
2601
                                                           call
                                                                        sub 0 2AD3
                              ; End of function sub_0_25F2
2602
2602
2602
                                        SUBROUTINE
 2602
2602
2602 3A 1A 60
2602
2605 0F
                                                                                                                                               ; CODE XREF: 0000:16D5<sup>†</sup>p
; sub_0_25F2+3<sup>†</sup>p
                              sub_0_2602:
                                                           ld
                                                                        a, (gen_purpose_timer)
                                                           rrca
 2606 DA 16 26
2609 21 A0 62
260C 35
                                                                        C, loc_0_2616
hl, #unk_0_62A0
(hl)
                                                           jp
ld
```

dec

jp ld

call

1d

call

loc\_0\_2616:

loc 0 2616

; CODE XREF: sub\_0\_2602+4<sup>†</sup> j
; sub\_0\_2602+B<sup>†</sup> j

(hl), #0x80; sub\_0\_26DE

hl, #unk\_0\_62A1

sub\_0\_26E9

260D C2 16 26

2610 36 80 2612 2C 2613 CD DE 26

2619 CD E9 26

2616 2616 2616 21 A1 62

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
     261C 32 A3 63
261F 3A 1A 60
                                                                                 (unk_0_63A3), a
                                                                  ld
    261F 3A 1A 60
262E E6 1F
2624 FE 01
2626 C0
2627 11 E4 69
262A EB
                                                                                a, (gen_purpose_timer)
#0x1F
                                                                  ld
                                                                  and
cp
ret
                                                                                de, #soft_sprite_ram+0xE4
de, hl
                                                                  ld
                                                                  ex
     262B CD A6 26
262E C9
                                                                  call
                                                                                sub_0_26A6
                                                                 ret
    262E
262E
262F
262F
                                    ; End of function sub_0_2602
    262F 262F 262F 262F 262F 2632 3A 05 62 2635 FE C0 2637 DA 6F 263A 3A 1A 60 263D 0F 263E DA 4C 262641 2D 2642 35 2646 36 C0 2648 2C 2646 264C 264C 21 A3 62 264C
                                                               SUBROUTINE
                                    sub_0_262F:
                                                                                                                                                          ; CODE XREF: sub_0_25F2+61p
                                                                  ld
                                                                                hl. #unk 0 62A3
                                                                                a, (mario_x_coord)
#0xC0; 'L'
C, loc_0_266F
                                                                  ld
                                                                  ср
                                                                  jp
ld
                                                                                a, (gen_purpose_timer)
                                                                 rrca
jp
dec
dec
                                                                                C, loc_0_264C
                                                                                 (hl)
                                                                                NZ, loc_0_264C
(hl), #0xC0; L
                                                                  jp
ld
                                                                  inc
                                                                                sub_0_26DE
                                                                  call
                                                                                                                                                          ; CODE XREF: sub_0_262F+F<sup>†</sup> j ; sub_0_262F+14<sup>†</sup> j ...
                                    loc_0_264C:
                                                                                hl, #unk_0_62A3
sub_0_26E9
(unk_0_63A5), a
     264C
                                                                 1d
    264C
264F CD E9 26
2652 32 A5 63
2655 ED 44
2657 32 A4 63
265A 3A 1A 60
265D E6 1F
                                                                  call
ld
                                                                  neg
                                                                 ld
ld
                                                                                .__o_osA4), a
a, (gen_purpose_timer)
#0x1F
                                                                  and
    265D E6 1F
265F C0
2660 2D
2661 11 EC 69
2664 EB
2665 CD A6 26
2668 E6 7F
266A 21 ED 69
266D 77
                                                                  ret
                                                                                NZ
                                                                                1
de, #soft_sprite_ram+0xEC
                                                                  dec
1d
                                                                 ex
call
and
ld
                                                                                de,
                                                                                       hl
                                                                                de, h1
sub_0_26A6
#0x7F; ' '
h1, #soft_sprite_ram+0xED
(h1), a
                                                                  ld
    266D 77
266E C9
266F
266F
266F CB 7E
2671 C2 4C 26
2674 36 FF
2676 C3 4C 26
                                                                  ret
                                    loc_0_266F:
                                                                    it 7, (h1)
p NZ, loc_0_264C
d (h1), #0xFF
p loc_0_264C
sub_0_262F
                                                                                                                                                          ; CODE XREF: sub_0_262F+8 j
                                                                 bit
                                                                  jp
ld
     2676 C3 4C 26
                                    jp; End of function
     2676
2676
2679
    2679
2679
2679
2679
                                             SUBROUTINE
                                    sub 0 2679:
                                                                                                                                                          ; CODE XREF: sub 0 25F2+91p
    ld
                                                                                a, (gen_purpose_timer)
                                                                  rrca
                                                                                C, loc_0_268D
hl, #unk_0_62A5
(hl)
                                                                  jp
ld
                                                                  dec
                                                                  jp
ld
                                                                                NZ, loc_0_268D
(hl), #0xFF
    268A CD DE 26
268D
268D
                                                                  call
                                                                                sub_0_26DE
                                                                                                                                                          ; CODE XREF: sub_0_2679+41j
    268D 21 A6 62 268D 269D CD E9 26 6693 32 A6 63 2696 3A 1A 60 2699 E6 1F 269B FE 02 269B CO 269E 11 F4 69 26A1 EB 26A2 CD A6 26 26A5 C9 2685
                                    loc_0_268D:
                                                                                                                                                          ; sub_0_2679+B<sup>†</sup> j
                                                                 ld
call
ld
                                                                                hl, #unk_0_62A6
sub_0_26E9
(unk_0_63A6), a
                                                                 ld
and
                                                                                 a, (gen_purpose_timer)
#0x1F
                                                                  ср
                                                                  ret
                                                                                NZ
                                                                 ld
ex
                                                                                de, #soft_sprite_ram+0xF4
de, hl
sub_0_26A6
                                                                 call
                                                                 ret
     26A5
26A5
26A6
26A6
26A6
26A6
26A6
                                    ; End of function sub_0_2679
                                                                SUBROUTINE
                                                                                                                                                          ; CODE XREF: sub_0_2602+29\uparrowp ; sub_0_262F+36\uparrowp ...
                                    sub_0_26A6:
    26A6 2C
26A6
26A7 1A
26A8 17
                                                                 inc
ld
                                                                                a, (de)
                                                                  rla
    26A9 DA C5 26
26AC 7E
26AD 3C
                                                                                C, loc_0_26C5
a, (h1)
                                                                  inc
                                                                                 #0x53 ; 'S'
     26AE FE 53
                                                                  ср
    26B0 C2 B5 26
26B3 3E 50
26B5
                                                                                NZ, loc_0_26B5
a, #0x50; 'P'
26B5
26B5
26B5
26B5 77
26B6 7D
26B7 C6 04
26B9 6F
26BA 7E
18B 3D
                                                                                                                                                         ; CODE XREF: sub 0 26A6+A1i
                                    loc_0_26B5:
                                                                 ld
ld
                                                                                (hl), a
a, l
a, #4
l, a
                                                                  add
ld
                                                                                1, a
a, (h1)
                                                                  ld
dec
```

; CODE XREF: sub 0 26A6+18 1

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

26C3

26C3 77

#0xCF ; '¤'

(hl), a

NZ, loc\_0\_26C3 a, #0xD2; 'Ê'

ср

1d

loc 0 26C3:

```
26C4 C9
                                                         ret
26C5
26C5
26C5
26C5 7E
26C6 3D
26C7 FE 4F
26C9 C2 CE 26
26CC 3E 52
26CE 26CE 77
26CF 7D
26CP 06 04
 26C5
                              loc_0_26C5:
                                                                                                                                           ; CODE XREF: sub_0_26A6+3 j
                                                         ld
                                                                       a, (hl)
                                                                      a
#0x4F; 'O'
NZ, loc_0_26CE
a, #0x52; 'R'
                                                         dec
                                                         cp
jp
ld
                              loc_0_26CE:
                                                                                                                                           ; CODE XREF: sub_0_26A6+23 j
                                                                       a, 1
a, #4
1, a
a, (h1)
                                                         ld
 26D0 C6 04
26D2 6F
26D3 7E
26D4 3C
                                                         add
                                                         ld
ld
                                                         inc
26D4 3C
26D5 FE D3
26D7 C2 DC 26
26DA 3E D0
26DC
26DC
26DC 77
26DD C9
                                                         cp
jp
ld
                                                                       #0xD3 ; 'Ë'
                                                                       NZ, loc_0_26DC
a, #0xD0; 'ŏ'
                              loc_0_26DC:
                                                                                                                                           ; CODE XREF: sub_0_26A6+31 j
                                                         ld
                                                         ret
 26DD
26DD
26DE
                              ; End of function sub_0_26A6
 26DE
                                                        SUBROUTINE
 26DE
 26DE
26DE
26DE CB 7E
                                                                                                                                            ; CODE XREF: sub_0_2602+11^p; sub_0_262F+1A^p ...
                              sub_0_26DE:
                                                                       7, (hl)
Z, loc_0_26E6
(hl), #2
 26DE
                                                         bit
 26E0 CA E6 26
26E3 36 02
26E5 C9
                                                         jp
ld
                                                         ret
 26E6
26E6
26E6
                              loc_0_26E6:
                                                                                                                                           ; CODE XREF: sub_0_26DE+2<sup>†</sup>j
         36 FE
                                                                       (hl), #0xFE; '■
 26E6
                                                         ld
 26E8 C9
26E8
26E8
                              ret
; End of function sub_0_26DE
 26E9
26E9
26E9
                                        SUBROUTINE
 26E9
26E9
26E9
26E9 3A 1A 60
26E9
26EC E6 01
26EE C8
26EF CB 7E
26F1 3E FF
26F3 C2 F8 26
26F8
26F8
26F8
26F8
26F8
26F7
77
                                                                                                                                            ; CODE XREF: sub_0_2602+17^p; sub_0_262F+20^p ...
                              sub 0 26E9:
                                                                       a, (gen_purpose_timer)
#1
                                                         ld
                                                         and
                                                         ret
bit
ld
                                                                      Z
7, (hl)
                                                                           #0xFF
                                                                       NZ, loc_0_26F8
a, #1
                                                         jp
ld
                                                                                                                                            ; CODE XREF: sub_0_26E9+A1j
                              loc_0_26F8:
 26F8 77
26F9 C9
26F9
26F9
                                                         1d
                                                                       (hl), a
                              ret; End of function sub_0_26E9
 26FA
 26FA
26FA
26FA
                                                        SUBROUTINE
26FA 26FA 3E 04 26FC F7 26FD 3A 05 62 2700 FE F0 2705 3A 29 62 2708 3D 2709 3A 1A 60 270C C2 1A 27 270F E6 03 2711 FE 01
                              sub_0_26FA:
                                                                                                                                           ; CODE XREF: 0000:19A71p
                                                         ld
                                                                       a, #4
0x30
                                                         rst
ld
                                                                                                                                           ; return if level bit not set
                                                                       #0xF0; '-'
NC, mario_dies_on_elevator
a, (level)
                                                         cp
jp
ld
                                                                                                                                           ; make mario die
                                                         dec
ld
jp
and
                                                                       a, (gen_purpose_timer)
NZ, loc_0_271A
 2711 FE
2713 CA
2716 DA
2719 C9
        FE 01
CA 1E 27
DA 22 27
                                                         cp
jp
                                                                       Z, loc_0_271E
C, loc_0_2722
                                                         jр
                                                         ret
                              loc_0_271A:
                                                                                                                                            ; CODE XREF: sub_0_26FA+12 j
 271A OF
271B DA 22 27
271E
                                                         rrca
                                                                       C, loc_0_2722
                              loc_0_271E:
                                                                                                                                            ; CODE XREF: sub 0 26FA+19<sup>†</sup> <sup>†</sup>
 271E
271E CD 45 27
                                                         call
                                                                       sub_0_2745
                              loc_0_2722:
                                                                                                                                            ; CODE XREF: sub_0_26FA+1C<sup>†</sup>j; sub_0_26FA+21<sup>†</sup>j
 2722 CD 97 27
                                                                       sub_0_2797
sub_0_27DA
                                                         call
 2722
2725 CD DA 27
                                                         call
        06 06
11 10 00
21 58 69
                                                         ld
ld
ld
                                                                       Sub_0_1DA

b, #6

de, #0x10

hl, #soft_sprite_ram+0x58

ix, #unk_0_6600
                                                                                                                                            ; six elevators
 2730 DD 21 00 66
                                                         ld
2734
2734 DD 7E 03
2737 77
2738 2C
2739 2C
273A 2C
273A 2C
                              loc_0_2734:
                                                                                                                                            ; CODE XREF: sub_0_26FA+48|j
; store coordinates
                                                                      a, 3(ix (hl), a
                                                                            3(ix)
                                                         ld
                                                         ld
inc
inc
                                                         inc
                                                                       a, 5(ix)
(hl), a
                                                         ld
                                                                           5(ix)
                                                         ld
 2740 DD
2742 10
2744 C9
2744
                                                         add
                                                                       ix, de
                              djnz loc_(
ret
; End of function sub_0_26FA
             F0
                                                                       loc_0_2734
```

```
SUBROUTINE I
 2745
2745
2745
2745
2745 2745 3A 98 63 2748 A7 2749 C8 2744 A7 274E C0 274F 3A 03 62 2752 FE 2C 2754 DA 66 27 2757 FE 43 2759 DA 66 27 2750 FE 6C 275E DA 66 27 2761 FE 83
                             sub_0_2745:
                                                                                                                                          ; CODE XREF: sub_0_26FA+24\p
                                                                      a, (mario_on_elevator)
                                                                                                                                           ; on elevator?
                                                         and
                                                         ret
                                                        ld
and
                                                                      a, (mario_jumping)
                                                                                                                                             jumping?
                                                        ret
ld
cp
jp
cp
jp
cp
jp
                                                                      NZ
                                                                                                                                           ; yes, return
                                                                           (mario_y_coord)
                                                                      C, loc_0_2766
                                                                                                                                          ; not not elevator
                                                                      #0x43 ;
                                                                           loc_0_276F
                                                                                                                                          ; on left elevator
                                                                      #0x6C
                                                                          x6C ; '1'
loc_0_2766
                                                                                                                                          ; not on elevator
2761 FE 83
2763 DA 87 27
2766
                                                                      C, loc_0_2787
                                                                                                                                          ; on right elevator
                                                                                                                                          ; CODE XREF: sub_0_2745+F<sup>†</sup>j
; sub_0_2745+19<sup>†</sup>j
; mark off elevator
                             loc_0_2766:
 2766
 2766 AF
2766
2767 32
                                                        xor
ld
2766
2767 32 98 63
276A 3C
276B 32 21 62
276E C9
                                                                      (mario on elevator), a
                                                         inc
                                                        ld
ret
                                                                      (unk_0_6221), a
 276F
276F
276F
276F
276F 3A 05 62
2772 FE 71
2774 DA 7F 27
2777 3D
2778 32 05 62
2778 32 4F 69
                             loc_0_276F:
                                                                                                                                          ; CODE XREF: sub_0_2745+14 j
                                                                      a, (mario_x_coord)
#0x71 ; 'q'
                                                         ld
                                                         ср
                                                                      C, mario_dies_on_elevator
                                                        jp
dec
                                                                                                                                          ; make mario die
; on upwards moving elevator
                                                                      (mario_x_coord), a
(soft_sprite_ram+0x4F), a
                                                         ld
277B 32 4F 69
277F C9
277F
277F
277F AF
277F AF
2780 32 00 62
2783 32 98 63
2786 C9
                                                                                                                                          ; CODE XREF: sub_0_26FA+8†j; sub_0_2745+2F†j ...
                             mario_dies_on_elevator:
                                                                      (mario_alive_flag), a
                                                         ld
ld
                                                                      (mario_on_elevator), a
 2786 C9
2787
2787
2787
2787
2787
27887
3A 05 62
278A FE E8
278C D2 7F 27
278F 3C
2790 32 05 62
2793 32 4F 69
                                                                                                                                          ; CODE XREF: sub 0_2745+1E j
                             loc 0 2787:
                                                        ld
                                                                      a, (mar:
#0xE8 ;
                                                                          (mario_x_coord)
                                                         ср
                                                                      NC, mario_dies_on_elevator
                                                         jp
inc
                                                                                                                                          ; on downwards moving elevator
                                                                      (mario_x_coord), a
(soft_sprite_ram+0x4F), a
                                                         ld
                                                         ld
                             ret; End of function sub_0_2745
 2796 C9
2796
2796
2797
2797
2797
2797
2797
                                    SUBROUTINE
                                                                                                                                          ; CODE XREF: sub_0_26FA+28↑p
; move elevators to the right side
                             sub 0 2797:
                                                                     b, #6
de, #0x10
ix, #unk_0_6600
 2797 06 06
                                                        ld
                                                         ld
ld
 27A0
27A0
                             loc_0_27A0:
                                                                                                                                          ; CODE XREF: sub_0_2797+2D-j
                                                                     0, 0(ix)
Z, loc_0_27C2
3, 0xD(ix)
Z, loc_0_27C7
a, 5(ix)
                                                         jp
bit
                                                                     a(ix), a

5(ix), a

#0x60; ''

NZ, loc_0_27C2

3(ix), #0x77; 'w'

0xD(ix), #4
                                                         dec
                                                         1d
                                                         ср
                                                         jp
ld
                                                         ld
                                                                                                                                          ; 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
27C6 C9
27C7
                                                                      ix, de
loc_0_27A0
                                                         add
                                                         djnz
; CODE XREF: sub_0_2797+14 j
                             loc_0_27C7:
                                                                      a, 5(ix)
                                                         ld
                             inc a ld 5(ix), a cp #0xF8; '°'
jp NZ, loc_0_27C2 ld 0(ix), #0 jp loc_0_27C2; End of function sub_0_2797
27DA
27DA
27DA
                                              SUBROUTINE
 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+2B<sup>†</sup>p ; move elevators to the left side
                             sub_0_27DA:
                                                                      hl, #unk_0_62A7
a, (hl)
                                                         ld
                                                         and
                                                                      NZ, loc_0_2806
b, #6
                                                                      ix, #unk_0_6600
                                                         ld
27E8
27E8
27E8 DD CB 00 46
27EC CA F4 27
27EF DD 19
27F1 10 F5
27F3 C9
                            loc_0_27E8:
                                                                                                                                          ; CODE XREF: sub_0_27DA+17|j
                                                                      0, 0(ix)
Z, loc_0_27F4
ix, de
                                                         bit
                                                         jp
add
                                                                      loc_0_27E8
 27F4
 27F4
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
                             loc_0_27F4:
                                                                                                                                            ; CODE XREF: sub_0_27DA+12 j
                                                                      0(ix), #1
3(ix), #0x37; '7'
5(ix), #0xF8; '0'
0xD(ix), #8
(h1), #0x34; '4'
27F4 DD 36 00 01
27F8 DD 36 03 37
27FC DD 36 05 F8
2800 DD 36 0D 08
                                                         ld
ld
ld
2804 36 34
2806
2806
2806 35
                                                         ld
                              loc_0_2806:
                                                                                                                                            ; CODE XREF: sub_0_27DA+5<sup>†</sup>j
                                                         dec
                                                                       (hl)
2807 C9
2807
2807
2808
                                                         ret
                              ; End of function sub_0_27DA
2808
2808
2808
                                                        SUBROUTINE |
                                                                                                                                            ; CODE XREF: 0000:19B31p
2808 2808 5 21 00 62 280C 3A 05 62 280F 4F 2810 21 07 04 2813 CD 6F 28 2816 A7 2817 CB 2818 3D 2819 32 00 62 281C 281C 281D 281D 281D 281D 281D 281D 281D
                             sub 0 2808:
 2808
                                                                      iy, #mario_alive_flag
a, (mario_x_coord)
                                                         1d
                                                         ld
ld
                                                                           a
                                                         ld
                                                                       hl.
                                                                              #0x40'
                                                         call
and
                                                                       sub_0_286F
                                                                       a
Z
                                                         ret
                                                         ded
                                                                                                                                            ; die
                                                         ld
ret
                                                                       (mario_alive_flag), a
                              ; End of function sub_0_2808
                                    SUBROUTINE
281D
281D
281D 06 02
281F 11 10 00
                              sub_0_281D:
                                                                                                                                            ; CODE XREF: 0000:19B6 p
                                                         ld
                                                                       b, #2
                                                                       de. #0x10
                                                         ld
2822 FD 21 80 66
2826
2826
                                                         ld
                                                                       iy, #unk_0_6680
                                                                                                                                            ; hammer character data
                             loc_0_2826:
                                                                                                                                            ; CODE XREF: sub_0_281D+12|j
 2826 FD CB 01 46
                                                         bit
                                                                      0, 1(iy)
NZ, loc_0_2832
iy, de
loc_0_2826
282A C2 32 28
282D FD 19
282F 10 F5
2831 C9
2832 2
2832 2
2832 2
2832 6
2835 FD 66 09
2838 FD 66 09
2838 FD 67 28
2836 A7
2837 C8
2840 32 50 63
2843 3A B9 63
28447 32 54 63
28447 32 54 63
28447 32 54 63
28447 32 54 63
28448 DD 22 51 63
2852 2853
2853 2853
2853 2853 2853
2853 7 D 21 00 62
2857 3A 05 62
2857 3A 05 62
2857 3A 05 62
2858 C6 0C
2850 AF 2850 AB 10 60
2860 B6 03
2868 21 08 05
2868 C8 68 28
2868 21 08 13
                                                         jp
add
                                                         djnz
                             loc 0 2832:
                                                                                                                                           ; CODE XREF: sub 0 281D+D| j
                                                                      c, 5(iy)
h, 9(iy)
1, 0xA(iy)
                                                         14
                                                         ld
ld
                                                         call
and
ret
ld
                                                                       sub_0_286F
                                                                       (unk_0_6350)
                                                                      a, (unk_0_63B9)
                                                         1d
                                                         sub
ld
                                                                       (unk_0_6354), a
                                                         ld
                                                                       (unk_0_6353), a
(unk_0_6351), ix
                                                         1d
                                                         ld
ret
                              ; End of function sub_0_281D
                                                       SUBROUTINE
                                                                                                                                            ; CODE XREF: sub_0_1AC3+15D\p
                             sub_0_2853:
                                                                       iy, #mario_alive_flag
                                                         ld
                                                                       a, (mario_x_coord)
                              loc_0_285A:
                                                         add
                                                                       a, #0x0
                                                         ld
ld
                                                                            (controller_in)
                                                         and
ld
                                                                                                                                            ; left/right only
                                                                       hl, #0x508
                                                                      Z, loc_0_286B
hl, #0x1308
                                                                                                                                           ; not left/right
                              loc_0_286B:
                                                                                                                                            ; CODE XREF: sub 0 2853+121i
 286B
286B CD 88 3E
286E C9
286E
                              call sub_(
ret
; End of function sub_0_2853
                                                                       sub_0_3E88
 286E
 286F
286F
286F
286F
                                                       SUBROUTINE
286F
286F 3A 27 62
286F
                              sub_0_286F:
                                                                                                                                            ; CODE XREF: sub_0_2808+B1p
                                                                                                                                            ; sub_0_281D+1E†p
                                                         ld
                                                                       a, (level_type)
286F
2872 E5
2873 EF
2873
2874 00 00
                                                         push
rst
                                                                       hl
                                                                       0x28
                                                                                                                                            ; go!
                                                                                                                                            ; Jump table
                                                          .dw 0
2874 00 00
2876 80 28
2878 B0 28
287A E0 28
287C 01 29
287E 00 00
2880
2880
                                                         .dw 11_check_hammer_hit
.dw 12_check_hammer_hit
.dw 13_check_hammer_hit
                                                          .dw 14_check_hammer_hit
                                                          .dw
2880
2880 E1
2881 06 0A
2883 78
2884 32 B9 63
                                                                                                                                            ; DATA XREF: sub 0 286F+71o
                             11_check_hammer_hit:
                                                                     hl
b, #0xA
a, b
                                                        pop
ld
```

a, b
(unk\_0\_63B9), a
de, #0x20;
ix, #unk\_0\_6700

b, #5 a, b (unk\_0\_63B9), a

ix, #unk\_0\_6400

; fireball character data

sub\_0\_2913

ld ld

ld ld

ld ld

ld

1d

call

2887 11 20 00 288A DD 21 00 67 288E CD 13 29 2891 06 05

2897 1E 20 2899 DD 21 00 64

288E CD 13 29 2891 06 05 2893 78 2894 32 B9 63

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
289D 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 C9
28AF
                                                                          call
                                                                                           sub_0_2913
                                                                                           b, #1
a, b
(unk_0_63B9), a
                                                                          ld
                                                                         ld
ld
ld
                                                                                           e, #0
ix, #unk_0_66A0
                                                                          ld
                                      call sub_(
ret
; End of function sub_0_286F
                                                                                           sub_0_2913
 28AF
28B0
28B0
28B0
28B0 28B0 E1 28B0 28B0 E1 28B0 E1 28B1 06 05 28B3 78 28B4 32 B9 63 28B7 11 20 00 64 28BE CD 13 29 28C1 06 06 28C9 DD 21 A0 65 28C9 DD 21 A0 65 28CD CD 13 29 28D0 66 01 28D0 66 28D0 CD 13 29 28D0 28D0 28D0 28D0 28E0 28E0 28E0 28E0 28E0 28E0
                                      12_check_hammer_hit:
                                                                                                                                                                                    ; DATA XREF: sub_0_286F+91o
                                                                                         hl
b, #5
                                                                                                                                                                                    ; sub_0_3E88+9 o
                                                                          pop
ld
                                                                          ld
                                                                                           (unk_0_63B9), a
de, #0x20; ''
ix, #unk_0_6400
                                                                         ld
ld
ld
                                                                                                                                                                                   ; fireball character data
                                                                          call
                                                                                           sub 0 2913
                                                                         ld
ld
ld
ld
                                                                                            (unk_0_63B9), a
                                                                                           e, #0x10
ix, #unk_0_65A0
sub_0_2913
                                                                         ld
call
ld
ld
                                                                                           b, #1
a, b
                                                                         ld
ld
ld
                                                                                            (unk_0_63B9), a
                                                                                           e, #0
ix, #unk_0_66A0
                                                                         call
ret
                                                                                           sub_0_2913
28E0
28E0 E1
28E0
                                                                                                                                                                                   ; DATA XREF: sub_0_286F+B↑o; sub_0_3E88+B├o
                                     13_check_hammer_hit:
28E0 E1 06 05 28E1 06 05 28E3 78 28E4 32 B9 63 28E7 11 20 00 64 28EE CD 13 29 28F1 06 0A 28EF 16 10 06 28F7 1E 10 28F9 DD 21 00 65 28FD CD 13 29 2900 C9 2901 2901 2901
                                                                                           hl
                                                                          pop
                                                                                           b, #5
a, b
(unk_0_63B9), a
                                                                          ld
                                                                         ld
ld
ld
                                                                                           de, #0x20 ; ' ' ix, #unk_0_6400
                                                                                                                                                                                   ; fireball character data
                                                                          ld
                                                                                           sub_0_2913
b, #0xA
a, b
(unk_0_63B9), a
                                                                          call
ld
                                                                         ld
ld
ld
ld
                                                                                           e, #0x10
ix, #unk_0_6500
                                                                                                                                                                                   ; check if hammer hits a spring
                                                                          call
                                                                                           sub_0_2913
                                                                                                                                                                                   ; DATA XREF: sub_0_286F+D↑o; sub_0_3E88+D├o
2901
2901 E1
2901
2902 06 07
                                     14_check_hammer_hit:
                                                                          pop
ld
                                                                                           b, #7
2902 06 07

2904 78

2905 32 B9 63

2908 11 20 00

290B DD 21 00 64

290F CD 13 29

2912 C9

2913

2913

2913

2913

2913

2913

2913

2913

2913

2913

2915

2915

2915

2915

2915

2915 DD CB 00 46
                                                                                          a, b

(unk_0_63B9), a

de, #0x20; ''

ix, #unk_0_6400
                                                                         ld
ld
ld
ld
                                                                                                                                                                                   ; fireball character data
                                                                          call
                                                                         ret
                                                                         SUBROUTINE
                                      sub_0_2913:
                                                                                                                                                                                   ; CODE XREF: sub_0_286F+1F<sup>p</sup>;
; sub_0_286F+2E<sup>p</sup> ...
                                                                         push
                                                                                           ix
                                                                                                                                                                                    ; CODE XREF: sub_0_2913+3B|j
                                      loc_0_2915:
2915 DD CB 00 46
2919 CA 4C 29
291C 79
291D DD 96 05
                                                                                           0, 0(ix)
Z, loc_0_294C
                                                                                                                                                                                    ; check if hammer hits something else
                                                                          jp
ld
                                                                                           a, c
5(ix)
                                                                          sub
2910 DD 96 05
2920 D2 25 29
2923 ED 44
2925
2925
2925 3C
2926 95
2927 DA 30 29
                                                                          jp
neg
                                                                                           NC, loc_0_2925
                                                                                                                                                                                   ; CODE XREF: sub 0 2913+D1i
                                      loc 0 2925:
                                                                          sub
                                                                                                loc_0_2930
                                                                          qŗ
2927 DA 30 29
292A DD 96 OA
292D D2 4C 29
2930
2930 FD 7E 03
2933 DD 96 03
2936 D2 3B 29
2939 ED 44
2938
                                                                          sub
                                                                                            0xA(ix)
                                                                                           NC, loc_0_294C
                                                                          jp
                                      loc 0 2930:
                                                                                                                                                                                   ; CODE XREF: sub 0 2913+14 j
                                                                                           a, 3(iy)
3(ix)
NC, loc_0_293B
                                                                          ld
                                                                          sub
jp
                                                                          neg
2939 ED 44
293B
293B
293B
293C DA 45
293C DA 45
2945
2945
2945
2945
2945
2947 DD E1
2949 33
294A 33
294B C9
                                      loc_0_293B:
                                                                                                                                                                                   ; CODE XREF: sub_0_2913+23 j
                                                                          sub
                                                                                           h
C, loc_0_2945
9(ix)
NC, loc_0_294C
                                                                          αĖ
                                                                           sub
```

; CODE XREF: sub 0 2913+291i

; CODE XREF: sub\_0\_2913+6<sup>†</sup>j; sub\_0\_2913+1A<sup>†</sup>j ...

jp

1d pop inc inc

djnz

xor ret ; End of function sub\_0\_2913

a, #1 ix

loc\_0\_2915

sp sp

loc 0 2945:

loc\_0\_294C:

294A 33 294B C9 294C 294C 294C DD 19 294C DD 19 294C 294E 10 C5

2950 AF 2951 DD E1 2953 C9

2953

```
Page: 62
```

```
2954
2954
2954
2954
2954
2954 3E 0B
2956 F7
2957 CD 74 29
2950 0F
295D 0F
295E 0F
195F 32 85 7
295 32 87 8
                                                      SUBROUTINE
                                                                                                                                                   ; CODE XREF: sub_0_1AC3+171↑p
                                     sub_0_2954:
                                                                ld
                                                                              a, #0xB
0x30
                                                                rst
call
ld
                                                                                                                                                   ; return if level bit not set
                                                                              sub_0_2974
(unk_0_6218), a
                                                                rrca
rrca
ld
ld
       295D OF
295E OF
295F 32 85 60
2962 78
2963 A7
2964 C8
2965 FE 01
2967 CA 6F 29
296A DD 36 01 01
296E C9
296F
296F
                                                                               (digital_snd_tmr_barrel_jump_priz), a
                                                                 and
                                                                 ret
                                                                 ср
                                                                              Z. loc 0 296F
                                                                 jp
ld
                                                                              1(ix), #1
       296F
296F DD
2973 C9
                                    loc_0_296F:
                                                                                                                                                   ; CODE XREF: sub_0_2954+13 j
               DD 36 11 01
                                                                 ld
                                                                              0x11(ix), #1
                                     ret; End of function sub_0_2954
       2973
2973
2974
2974
                                                               SUBROUTINE
       2974
2974
2974
2974 FD 21 00 62
2978 3A 05 62
2978 4F
297C 21 08 04
297F 06 02
2981 11 10 00
2984 DD 21 80 66
2988 CD 13 29
2988 CD 29
                                    sub_0_2974:
                                                                                                                                                   ; CODE XREF: sub_0_2954+31p
                                                                              iy, #mario_alive_flag
                                                                 ld
                                                                ld
ld
ld
ld
                                                                              a, (mario_x_coord)
                                                                              c, a
hl, #0x408
                                                                              b, #2
                                                                              de, #0x10
ix, #unk_0_6680
sub_0_2913
                                                                ld
ld
                                                                                                                                                   ; hammer character data
                                                                 call
                                                                ret
       ; End of function sub_0_2974
                                                               SUBROUTINE
                                     sub 0 298C:
                                                                                                                                                   ; CODE XREF: sub 0 3202+3C-p
                                                                 14
                                                                              hl, (unk_0_63C8)
                                                                ld
add
                                                                              a,
a,
1,
                                                                                  1
#0xE
                                                                ld
ld
inc
ld
                                                                                   (hl)
                                                                              d,
1
                                                                             a, (h1)
a, #0xC
e, a
de, h1
get_tilemap_addr_from_coords
                                                                                   (hl)
                                                                add
ld
ex
call
                                                                              a, (hl)
#0xB0;
                                                                ld
cp
jp
and
cp
jp
xor
                                                                                    loc_0_29AC
                                                                               #0xF
                                                                              NC, loc_0_29AC
                                                                 ret
                                     loc_0_29AC:
                                                                                                                                                   ; CODE XREF: sub_0_298C+14<sup>†</sup>j; sub_0_298C+1B<sup>†</sup>j
                                                                14
                                                                              a, #1
                                                                 ret
                                     ; End of function sub_0_298C
       29AE
29AF
29AF
29AF
                                                              SUBROUTINE
       29AF
29AF 29AF 3E 04
29BF 72 10 00 62
29B2 FD 21 00 62
29B2 FD 21 00 62
29B9 4F
29BA 21 08 04
29BD CD 22 2A
29C0 A7
29C1 CA 20 2A
29C4 3E 06
29C6 90
29C7
29C7
29C7
                                     sub_0_29AF:
                                                                                                                                                   ; CODE XREF: sub_0_2B1C+7|p
                                                                 ld
                                                                              a, #4
0x30
                                                                                                                                                   ; return if level bit not set
                                                                 rst
                                                                ld
ld
ld
                                                                              iy, #mario_alive_flag
a, (mario_x_coord)
                                                                              hl.
                                                                                     #0x408
                                                                 ld
                                                                              sub_0_2A22
                                                                 call
and
                                                                              a
Z, loc_0_2A20
a, #6
                                                                 jp
ld
                                                                 sub
                                     loc_0_29C7:
                                                                                                                                                   ; CODE XREF: sub_0_29AF+1E|j
       29C7 CA DO 29
29CA DD 19
29CC 3D
29CD C3 C7 29
                                                                 jp
add
dec
                                                                              Z, loc_0_29D0
ix, de
                                                                              a
loc_0_29C7
                                                                 αĖ
       29D0
29D0
29D0
       29D0 DD 7E 05
29D3 DG 04
29D5 57
29D6 3A 0C 62
29D9 C6 05
29DB BA
29DC D2 E 29
29DF 7A
29E0 D6 08 2
29E5 3E 01
29E7 47
29E8 33
29EC 33
29EB 33
29EC 33
29EC 99E
                                     loc_0_29D0:
                                                                                                                                                   ; CODE XREF: sub_0_29AF+18 j
                                                                              a, 5(ix)
#4
d, a
                                                                 ld
                                                                sub
ld
ld
                                                                             a, (mario_y_be:
a, #5
d
NC, loc_0_29EE
a, d
                                                                                   (mario_y_before_jump)
                                                                 add
                                                                 cp
jp
ld
                                                                                                                                                   ; check if on or below elevator
                                                                              a,
#8
                                                                sub
ld
ld
ld
inc
inc
                                                                               (mario_x_coord), a
                                                                                                                                                   ; flag on elevator
                                                                              a, #1
b, a
                                                                               (mario_on_elevator), a
                                                                               sp
                                                                              sp
        29ED C9
                                                                 ret
        29EE
```

```
29EE
                                                                                                                                                           ; CODE XREF: sub_0_29AF+2D<sup>†</sup> j ; collide with side of elevator
29EE 29EE 3A OC 62
29F1 D6 OE 29F3 BA 29F4 D2 1B 2A 29F7 AA 10 62
29F8 AA 03 62
29FB AA 03 62
29FB CA 08 2A 2A01 F6 07 2A03 D6 04
2A05 C3 OE 2A 2A08
 29EE
                                 loc 0 29EE:
                                                                              a, (mario_y_before_jump)
#0xE
                                                               1d
                                                               sub
cp
                                                                              NC, loc_0_2A1B
a, (unk_0_6210)
                                                               jp
ld
and
ld
                                                                              a, (mario_y_coord)
z, loc_0_2A08
#7
                                                               jp
or
sub
                                                                               loc_0_2A0E
                                                                jр
2A08
2A08
2A08
2A08 D6 08
                                 loc_0_2A08:
                                                                                                                                                           ; CODE XREF: sub_0_29AF+4F<sup>†</sup> j
                                                                               #8
#7
                                                                sub
2A0C C6 04
2A0E
                                                                               a, #4
2A0E 2A0E 2A0E 32 03 62 2A11 32 4C 69 2A14 3E 01 2A16 06 00 2A18 33 2A19 33 2A19 33 2A19 2A1B 2A1B 2A1B 2A1B 2A1B 2A1B 2A1C 32 00 62 2A1F C9 2A20 2A20 2A20 47 2A21 C9 2A21
                                 loc 0 2A0E:
                                                                                                                                                           ; CODE XREF: sub 0 29AF+561i
                                                               ld
ld
ld
                                                                               (mario_y_coord), a
(soft_sprite_ram+0x4C), a
                                                                               a, #1 b, #0
                                                                ld
                                                                               sp
                                                                               sp
                                                                ret
                                 loc_0_2A1B:
                                                                                                                                                           ; CODE XREF: sub_0_29AF+45 j
                                                                xor
                                                                1d
                                                                               (mario_alive_flag), a
                                 loc_0_2A20:
                                                                                                                                                           ; CODE XREF: sub_0_29AF+12 j
                                                                ld
                                                                               b, a
ret
                                 ; End of function sub_0_29AF
                                                                SUBROUTINE
                                                                                                                                                           ; CODE XREF: sub_0_29AF+E<sup>p</sup>
                                 sub_0_2A22:
                                                                ld
                                                                              b, #6
                                                                              de, #0x10
ix, #unk_0_6600
sub_0_2913
                                                                14
                                                               ld
call
                                                                ret
                                 ; End of function sub_0_2A22
2A2F
2A2F
2A2F
2A2F
                                       SUBROUTINE
2A2F 2A2F DD 7E 03 2A2F 2A32 67 2A33 DD 7E 05 2A36 C6 04 2A38 6F 2A39 E5 2A3 CD F0 2F 2A3D D1 2A3E 7E 2A3F FE 80 2A41 DA 7B 2A 2A44 BC 07 2A46 FE 08 2A48 D2 7B 2A 2A46 FE C0 2A4E CA 7B 2A 2A51 DA 69 2A 2A51 DA 69 2A 2A54
                                                                                                                                                            ; CODE XREF: sub_0_1F72+E5 p
                                 sub_0_2A2F:
                                                                                                                                                            ; sub_0_1F72+1881p
                                                                              a, 3(ix)
h, a
a, 5(ix)
a, #4
1, a
h1
                                                               ld
ld
ld
                                                                add
                                                               ld
push
call
                                                                              --
get_tilemap_addr_from_coords
de
                                                                pop
ld
                                                                                   (hl)
                                                                               a, (hl
#0xB0
                                                               cp
jp
and
cp
                                                                                   loc_0_2A7B
                                                                               C, l
#0xF
                                                                               #8
NC, loc_0_2A7B
                                                                jp
ld
                                                                               a, (h1)
#0xC0; L
Z, loc_0_2A7B
                                                                cp
jp
jp
cp
                                                                                    loc 0 2A69
2A51 DA 69 2A
2A54 FE DO
2A56 DA 6E 2A
2A59 FE EO
2A5B DA 63 2A
2A5E FE FO
2A60 DA 6E 2A
2A63
2A63
                                                                               #0×D0 ;
                                                                              C, loc_
#0xE0; 'O'
C, loc_0_2A63
                                                                                    loc_0_2A6E
                                                               cp
jp
cp
                                                                               C, loc_0_2A6E
2A63
2A63 E6 OF
2A65 3D
2A66 C3 72 2A
2A69
                                                                                                                                                           ; CODE XREF: sub 0 2A2F+2C1i
                                 loc_0_2A63:
                                                                and
dec
                                                                               #0xF
                                                                               loc 0 2A72
                                                                qŗ
 2A69
2A69
                                 loc_0_2A69:
                                                                                                                                                            ; CODE XREF: sub_0_2A2F+22<sup>†</sup> j
          3E FF
                                                                                   #0xF
                                                                ld
 2A6B C3 72 2A
                                                                jp
                                                                               loc_0_2A72
2A6E
2A6E
2A6E
                                                                                                                                                            ; CODE XREF: sub_0_2A2F+27 j
                                 loc 0 2A6E:
2A6E 2A6E 6 0F 2A6E 2A70 D6 09 2A72 2A72 4F 2A72 2A73 7B 2A74 E6 F8 2A76 81 2A77 BB 2A78 DA 7D
                                                                                                                                                            ; sub_0_2A2F+31<sup>†</sup>j
                                                                sub
                                                                                                                                                           ; CODE XREF: sub_0_2A2F+37<sup>†</sup>j
; sub_0_2A2F+3C<sup>†</sup>j
                                loc_0_2A72:
                                                                ld
                                                                               c, a
a, e
#0xF8
                                                                ld
                                                                and
add
                                                                ср
                                                                               e
C, loc_0_2A7D
 2A78 DA 7D 2A
2A78 DA
2A7B
2A7B
2A7B AF
2A7C C9
2A7D
                                                                                                                                                           ; CODE XREF: sub_0_2A2F+12<sup>†</sup>j; sub_0_2A2F+19<sup>†</sup>j ...
                                 loc_0_2A7B:
 2A7D
                                 loc_0_2A7D:
                                                                                                                                                           ; CODE XREF: sub_0_2A2F+49<sup>†</sup>j
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
2A7D D6 04
2A7F DD 77 05
2A82 3E 01
2A84 C9
2A84
                                                        sub
                                                                     5(ix), a
                                                        1d
                                                        ld
                             ; End of function sub_0_2A2F
2A84
2A85
2A85
2A85
                                                      SUBROUTINE
2A85
2A85
2A85 3A 15 62
2A88 A7
                             sub_0_2A85:
                                                                                                                                        ; CODE XREF: 0000:19A1\p
                                                                     a, (mario_climbing)
2A88 A7
2A89 C0
2A8A 3A 16 62
2A8B A7
2A8E C0
2A8F 3A 98 63
2A92 FE 01
2A94 C8
2A95 3A 03 62
2A98 D6 03
2A9A 67
2A9B 2A 05
2A9B C6 0C
2AA0 6F
2AA1 E5
2AA2 CD F0 2F
2AA5 D1
2AA6 7F
2AA7 FE B0
2AA9 DA B4 2A
2AAC E6 0F
                                                                                                                                        ; climbing?
                                                        and
                                                        ret
                                                                     NZ
                                                       ld
and
                                                                     a, (mario_jumping)
                                                                                                                                        ; jumping?
; yes, return
                                                                     a
NZ
                                                        ret
                                                       ld
cp
ret
                                                                         (mario_on_elevator)
                                                                                                                                        ; on elevator?
; yes, return
                                                        1d
                                                                     a, (mario_y_coord)
#3
                                                        sub
ld
ld
                                                                    a, (mario_x_coord)
a, #0xC
1, a
h1
                                                        add
                                                       ld
push
call
                                                                     --
get_tilemap_addr_from_coords
de
                                                        pop
ld
                                                                         (hl)
                                                        cp
jp
and
cp
                                                                         loc_0_2AB4
                                                                     C, 1
#0xF
2AAC E6 OF
2AAE FE 08
2ABO D2 B4 2A
2AB3 C9
                                                                     NC, loc_0_2AB4
                                                        jр
loc_0_2AB4:
                                                                                                                                        ; CODE XREF: sub_0_2A85+24 i j ; sub_0_2A85+2B j
                                                                    a, d

#7

Z, loc_0_2ACD

bc, #0x20; '

hl, bc

a, (hl)
                                                       ld
and
                                                        jp
ld
                                                        sbo
                                                                     a, (hl)
#0xB0;
                                                       cp
jp
and
                                                                         loc 0 2ACD
                                                        ср
                                                                     NC, loc_0_2ACD
                                                                                                                                        ; CODE XREF: sub_0_2A85+32<sup>†</sup> j ; sub_0_2A85+3D<sup>†</sup> j ...
2ACD
2ACD 3E 01
2ACD
2ACF 32 21
                            loc 0 2ACD:
                                                       ld
ld
                                                                     a, #1
(unk_0_6221), a
        32 21 62
ret; End of function sub_0_2A85
                             ; SUBROUTINE SUBROUTINE
                            sub_0_2AD3:
                                                                                                                                        ; CODE XREF: sub 0 25F2+C1p
                                                        14
                                                                     a, (mario_y_coord)
                                                        ld
ld
                                                                    b, a
a, (mario_x_coord)
                                                       cp
jp
cp
jp
cp
jp
ret
                                                                         loc_0_2AEA
                                                                     Z, loc_0_2AF6
2AE4 FE C8
2AE6 CA FO 2A
2AE9 C9
2AEA
                                                                     Z, loc_0_2AF0
2AEA
2AEA
2AEA 3A A3 63
2AED C3 02 2B
                             loc_0_2AEA:
                                                                                                                                        ; CODE XREF: sub_0_2AD3+9<sup>†</sup>j
                                                                     a, (unk_0_63A3)
loc_0_2B02
                                                        ld
                                                        jр
2AF0
2AF0
2AF0
                             loc_0_2AF0:
                                                                                                                                        ; CODE XREF: sub_0_2AD3+13 j
2AF0 2AF3 A A6 63 2AF3 C3 02 2B 2AF6 2AF6 2AF6 78 2AF7 FE 80 2AF9 3A A5 63 2AFC D2 02 2B 2AF7 3A A4 63 2B02 2B02 2B02 80 80
                                                        ld
                                                                         (unk 0 63A6)
                                                                     loc_0_2B02
                                                        jp
                            loc 0 2AF6:
                                                                                                                                        ; CODE XREF: sub 0 2AD3+E17
                                                        ld
                                                                    a, b

#0x80; 'C'

a, (unk_0_63A5)

NC, loc_0_2B02

a, (unk_0_63A4)
                                                        cp
ld
                                                                                                                                        ; CODE XREF: sub_0_2AD3+1A†j; sub_0_2AD3+20†j ...
                            loc 0 2B02:
add
ld
ld
                                                                     a, b
(mario_y_coord), a
                                                                     (soft_sprite_ram+0x4C), a
sub_0_241F
hl, #mario_y_coord
                                                       call
ld
dec
```

e Z, loc\_0\_2B18

d Z, loc\_0\_2B1A

(hl)

(hl)

; CODE XREF: sub\_0\_2AD3+3D<sup>†</sup> j

; CODE XREF: sub 0 2AD3+411j

jp dec jp

loc\_0\_2B18:

loc 0 2B1A:

280F 1D 2810 CA 18 2B 2813 15 2814 CA 1A 2B 2817 C9 2818 2818 2818 2818 2818 35

2B18 2B19 C9 2B1A 2B1A

2B1A 34

```
2B1B C9
                                                      ret; End of function sub_0_2AD3
2B1B
                                                                                                     SUBROUTINE
                                                                                                                                                                                                                                                                   ; CODE XREF: sub_0_1AC3+142↑p
                                                      sub_0_2B1C:
                                                                                                                                    ix, #mario_alive_flag
                                                                                                          ld
                                                                                                          call
call
xor
ld
                                                                                                                                   sub_0_2B29
sub_0_29AF
                                                                                                                                    a
b, a
2B28 C9
2B28
2B28
                                                       ret; End of function sub_0_2B1C
 2B29
2B29
2B29
2B29
2B29
                                                                                                     SUBROUTINE
2B29 2B29 3A 27 62 2B2C 3D 62 2B30 3A 03 62 2B33 67 2B34 66 67 2B39 6F 60 78 2B3 A7 52 B3B CA 51 2B 2B3A CD 9B 2B 2B3D A7 52 B3B CA 51 2B 2B41 7B
                                                      sub_0_2B29:
                                                                                                                                                                                                                                                                    ; CODE XREF: sub 0 2B1C+41p
                                                                                                         ld
dec
jp
ld
                                                                                                                                   a, (level_type)
                                                                                                                                   NZ, loc_0_2B53
                                                                                                                                  a, (mario_;_
h, a
a, (mario_x_coord)
                                                                                                          ld
ld
                                                                                                          add
                                                                                                          14
                                                                                                          call
and
jp
ld
                                                                                                                                    sub_0_2B9B
                                                                                                                                    a
Z, loc_0_2B51
283E CA 51 2B
2841 7B
2842 91
2843 FE 04
2845 D2 74 2B
2848 79
2849 D6 07
2848 32 05 62
284E 3E 01
2851
2851
2851
2851 E1
2852 C9
2853
2853
                                                                                                          sub
                                                                                                          jp
ld
sub
ld
                                                                                                                                    NC. loc 0 2B74
                                                                                                                                    (mario_x_coord), a
                                                                                                                                   a, #1
b, a
                                                                                                          ld
                                                                                                          1d
                                                      loc 0 2B51:
                                                                                                                                                                                                                                                                   ; CODE XREF: sub_0_2B29+15<sup>†</sup>j
                                                                                                          pop
                                                                                                                                   hl
2853 384 03 62 2856 D6 03 2858 67 2855 E6 2859 3A 05 62 2855 E6 2856 E7 2856 E6 2856 E
                                                                                                                                                                                                                                                                  ; CODE XREF: sub 0 2B29+41i
                                                      loc 0 2B53:
                                                                                                                                   a, (mario_y_coord)
#3
                                                                                                          ld
                                                                                                          sub
                                                                                                          ld
                                                                                                                                    h, a
                                                                                                          ld
add
ld
                                                                                                                                    a, (mario_x_coord)
a, #7
1, a
                                                                                                          call
                                                                                                                                    sub_0_2B9B
#2
Z, loc_0_2B7A
                                                                                                          jp
ld
                                                                                                                                    a,
                                                                                                                                            d
                                                                                                                                   a, #7
h, a
l, e
                                                                                                          add
                                                                                                          ld
ld
                                                                                                          call
                                                                                                                                    sub 0 2B9B
                                                                                                          and
                                                                                                          ret
jp
                                                                                                                                    loc_0_2B7A
                                                       loc_0_2B74:
                                                                                                                                                                                                                                                                   ; CODE XREF: sub_0_2B29+1C<sup>†</sup> j
                                                                                                                                  a, #0
b, #0
hl
                                                                                                          ld
                                                                                                          ld
2B78 E1
2B79 C9
2B7A
2B7A
2B7A
2B7A 3A 10 62
2B7A
                                                                                                                                                                                                                                                                   ; CODE XREF: sub_0_2B29+3B<sup>†</sup>j; sub_0_2B29+48<sup>†</sup>j
                                                       loc_0_2B7A:
                                                                                                                                   a. (unk 0 6210)
                                                                                                          ld
2B7A 2B7D A7 2B7E 3A 03 62 2B81 CA 8B 2B 2B84 F6 07 2B88 C3 91 2B 2B8B 2B8B 2B8B
                                                                                                                                   a
a,
Z,
                                                                                                          and
ld
                                                                                                                                           (mario_y_coord)
loc_0_2B8B
                                                                                                          jp
or
                                                                                                          sub
                                                                                                          jp
                                                                                                                                    loc_0_2B91
2888
2888
2888 D6 08
288D F6 07
288F C6 04
                                                      loc_0_2B8B:
                                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_2B29+58<sup>†</sup>j
                                                                                                          add
                                                                                                                                    a, #4
 2B91
2B91
2B91 32 03 62
                                                       loc_0_2B91:
                                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_2B29+5F<sup>†</sup>j
                                                                                                                                  (mario_y_coord), a
(soft_sprite_ram+0x4C), a
a, #1
h1
                                                                                                          ld
2B94 32 4C 69
2B97 3E 01
2B99 E1
2B9A C9
                                                                                                          ld
ld
                                                                                                         pop
                                                                                                          ret
2B9A
2B9A
2B9B
                                                       ; End of function sub_0_2B29
2B9B
2B9B
2B9B
2B9B
                                                       ; SUBROUTINE
                                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_2B29+11^p; sub_0_2B29+36^p ...
                                                      sub 0 2B9B:
get_tilemap_addr_from_coords
de
                                                                                                          push
call
                                                                                                          pop
ld
                                                                                                                                            (hl)
                                                                                                                                    a, (h1)
#0xB0; '\"
C, loc_0_2BD9
#0xF
                                                                                                          ср
                                                                                                          jp
and
                                                                                                          cp
jp
ld
                                                                                                                                   NC, loc_0_2BD9
a, (hl)
#0xC0; L
 2BAE FE CO
                                                                                                          cp
jp
 2BB0 CA D9 2B
                                                                                                                                    Z, loc_0_2BD9
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
2BB3 DA DC 2B
2BB6 FE DO
2BB8 DA CB 2B
2BB8 FE EO
2BBD DA C5 2B
2BC0 FE FO
2BC2 DA CB 2B
2BC5
2BC5
2BC5 E6 OF
2BC7 3D
2BC8 C3 CF 2B
                                                                   C, loc_0_2BDC
                                                      jр
                                                      cp
jp
cp
                                                                   #0xD0
                                                                       loc_0_2BCB
                                                                  C, loc_
#0xE0; 'ô'
C, loc_0_2BC5
                                                      jр
                                                      cp
jp
                                                                  C, loc_0_2BCB
                            loc_0_2BC5:
                                                                                                                                    ; CODE XREF: sub_0_2B9B+22<sup>†</sup> j
2BC7 3D
2BC8 C3 CF 2B
2BCB
                                                      and
                                                                   #0xF
                                                                   loc_0_2BCF
                                                      jр
2BCB
2BCB
2BCB E6 OF
                                                                                                                                    ; CODE XREF: sub_0_2B9B+1D<sup>†</sup> j ; sub_0_2B9B+27<sup>†</sup> j
                            loc_0_2BCB:
                                                      and
                                                                   #0xF
2BCB
sub
                           loc_0_2BCF:
                                                                                                                                    ; CODE XREF: sub_0_2B9B+2D1j
                                                                   c, a
a, e
#0xF8
                                                      ld
2BD0 7B
2BD1 E6 F8
2BD3 81
2BD4 4F
                                                      ld
and
add
ld
                                                                            7 101
                                                                  a, c
c, a
2BD5 BB
2BD6 DA E1 2B
                                                                  e
C, loc_0_2BE1
                                                      cp
jp
2BD9
2BD9
2BD9 AF
2BD9
2BDA 47
                                                                                                                                    ; CODE XREF: sub_0_2B9B+8<sup>†</sup>j
                           loc_0_2BD9:
                                                                                                                                       sub_0_2B9B+F↑j ...
                                                      xor
ld
                                                                  a
b, a
2BDB C9
2BDC
2BDC
2BDC
2BDC
                                                                                                                                    ; CODE XREF: sub_0_2B9B+18 j
                            loc 0 2BDC:
2BDC 7B 2BDD 7B 88 2BDD 7B 2BE0 4F 2BE1 2BE1 2BE1 3A 0C 62 2BE4 DD 96 05 2BE7 83 2BE8 B9 2BE9 CA EF 2B 2BE9 CA EF 2B
                                                      ld
and
dec
                                                                   #0xF8 ; '°'
                                                                   c, a
                                                      ld
                                                                                                                                    ; CODE XREF: sub_0_2B9B+3B<sup>†</sup>j
                            loc_0_2BE1:
                                                      ld
                                                                        (mario_y_before_jump)
                                                                   a, (m
5(ix)
                                                      sub
                                                      add
cp
                                                                   a, e
                                                                  Z, loc_0_2BEF
NC, loc_0_2BF8
2BE9 CA EF 2B
2BEC D2 F8 2B
2BEF
2BEF
                                                      jp
                                                      jp
                            loc_0_2BEF:
                                                                                                                                    ; CODE XREF: sub_0_2B9B+4E<sup>†</sup>j
2BEF 79
                                                      ld
2BF0 D6 07
2BF2 32 05 62
2BF5 C3 FD 2B
                                                      sub
ld
                                                                   (mario_x_coord), a loc_0_2BFD
                                                      jр
2BF8
2BF8
2BF8
2BF8 3E 02
                            loc_0_2BF8:
                                                                                                                                    ; CODE XREF: sub_0_2B9B+51 j
                                                                  a, #2
b, #0
                                                      ld
2BFA 06 00
2BFC C9
2BFD
2BFD
                                                      1d
2BFD
2BFD 3E 01
2BFF 47
2C00 E1
2C01 E1
2C02 C9
2C02
                                                                                                                                    ; CODE XREF: sub_0_2B9B+5A j
                           loc_0_2BFD:
                                                      ld
ld
                                                                  a, #1
b, a
                                                                  hl
                                                      qoq
                           pop hl pop hl ret ; End of function sub_0_2B9B
SUBROUTINE
                            sub_0_2C03:
                                                                                                                                    ; CODE XREF: 0000:19891p
                                                      ld
                                                                  a, #1
0x30
                                                                                                                                    ; return if level bit not set
                                                      rst
                                                      rst
ld
                                                                   0x10
                                                                                                                                    ; return if mario not alive
                                                                  a, (barrel_deployment)
                                                      rrca
                                                      ret
                                                      ld
and
                                                                   a, (unk_0_62B1)
                                                                  a
Z
                                                      ret
ld
                                                                  c, a
a, (unk_0_62B0)
#2
                                                      ld
sub
                                                                  C, loc_0_2C7B
                                                      cp
jp
ld
bit
jp
ld
ld
                                                                        (unk_0_6382)
                                                                   1, a
NZ, loc_0_2C86
2C23 3A 80 63
2C26 47
2C27 3A 1A 60
2C2A E6 1F
                                                                  a, (unk_0_6380)
b, a
a, (gen_purpose_timer)
#0x1F
                                                      and
2C2C
2C2C
2C2C
                            loc_0_2C2C:
                                                                                                                                   ; CODE XREF: sub_0_2C03+2D|j
        в8
2C2C B8
2C2D CA 33 2C
2C30 10 FA
2C32 C9
2C33
2C33
2C33 A B0 62
2C36 CB 3F
2C38 B9
                                                      ср
                                                                   Z, loc_0_2C33
                                                      jp
djnz
ret
                                                                   loc_0_2C2C
```

; CODE XREF: sub\_0\_2C03+2A1j

; CODE XREF: sub\_0\_2C03+36 j

loc\_0\_2C33:

loc\_0\_2C41:

2C30 2C39 2C3C 2C3F DA 3A 0F

2C40 D0 2C41 2C41

2C41 CD 57 00

2C44 E6 OF

41 2C 19 60

ld

srl cp jp ld

rrca

call

NC

rand

a, (unk\_0\_62B0)

C, loc\_0\_2C41 a, (random\_no+1)

```
2C49
2C49
2C49 3E 01
2C4B
                              loc_0_2C49:
                                                                                                                                                  ; CODE XREF: sub_0_2C03+7B|j
                                                           ld
                                                                          a, #1
                                                                                                                                                  ; CODE XREF: sub 0 2C03+80+1
 2C4B
                               loc_0_2C4B:
 2C4B 32 82 63
2C4E 3C
2C4F
                                                            14
                                                                          (unk_0_6382), a
2C4F 32 8F 63 2C52 3E 01 2C54 32 92 63 2C57 3A B2 62 2C5A B9 2C5B C0 6 08 2C5C 32 B2 62 2C61 11 20 00 64 2C67 06 05 2C69 2C69 7E 2C6A A7 2C6 & 72 2C
                              loc 0 2C4F:
                                                                                                                                                  ; CODE XREF: sub_0_2C03+89|j
 2C4F
                                                            14
                                                                          (unk_0_638F), a
                                                            ld
ld
                                                                           a, #1
(unk_0_6392),
                                                            ld
                                                                           a, (unk_0_62B2)
                                                            cp
ret
                                                            sub
                                                            ld
ld
ld
                                                                          (unk_0_62B2), a
de, #0x20; ''
h1, #unk_0_6400
                                                                                                                                                  ; fireball character data
                                                            ld
                               loc_0_2C69:
                                                                                                                                                  ; CODE XREF: sub_0_2C03+6C|j
                                                            ld
                                                                          a, (hl)
                                                            and
2C6A A7
2C6B CA 72 2C
2C6E 19
2C6F 10 F8
2C71 C9
2C72
2C72
2C72
2C72
2C72
                                                                          Z, loc_0_2C72
hl, de
loc_0_2C69
                                                            jp
add
                                                            djnz
                               loc_0_2C72:
                                                                                                                                                  ; CODE XREF: sub_0_2C03+68 j
2C72 3A 82 63
2C75 F6 80
2C77 32 82 63
2C7A C9
                                                            1d
                                                                          a, (unk_0_6382)
#0x80 ; 'C'
                                                            or
ld
                                                                          (unk_0_6382), a
                                                            ret
2C7B
2C7B
2C7B
                               loc_0_2C7B:
                                                                                                                                                  ; CODE XREF: sub_0_2C03+15 j
 2C7B C6 02
                                                            add
                                                                          a. #2
 2C7D B9
2C7E CA 49 2C
2C81 3E 02
2C83 C3 4B 2C
                                                            ср
                                                                          Z, loc_0_2C49
                                                            jp
ld
                                                                          a, #2
loc_0_2C4B
                                                            jp
                                                                                                                                                   ; CODE XREF: sub_0_2C03+1D<sup>†</sup>j; sub_0_2C03+43<sup>†</sup>j
 2C86
                               loc 0 2C86:
 2C86 AF
2C86 AF
2C86
2C87 32 82 63
2C8A 3E 03
2C8C C3 4F 2C
2C8C
2C8C
                                                            xor
ld
                                                                           a
(unk_0_6382), a
                                                            ld
                               jp loc_
; End of function sub_0_2C03
                                                                          loc_0_2C4F
2C8F
2C8F
2C8F
2C8F
                                             SUBROUTINE
2C8F
2C8F 3E 01
2C91 F7
2C92 D7
2C93 3A 93 63
2C96 0F
2C97 DA 15 2D
2C9A 3A 92 63
2C9D 0F
2C9E D0
2C9F DD 21 00 67
2CA3 11 20 00
2CA6 06 0A
2CA8
2CA8
2CA8 DD 7E 00
                               sub_0_2C8F:
                                                                                                                                                  ; CODE XREF: 0000:1986 p
                                                                          a, #1
0x30
0x10
                                                            ld
rst
                                                                                                                                                   ; return if level bit not set
; return if mario not alive
                                                            rst
ld
                                                                          a, (barrel_deployment)
                                                            rrca
                                                            jp
ld
                                                                          a, (unk_0_6392)
                                                            rrca
ret
ld
                                                                          NC ix, #unk_0_6700
                                                            ld
                                                                          de, #0x20;
b, #0xA
                                                            ld
                                                                                                                                                  ; CODE XREF: sub_0_2C8F+26|j
                               loc_0_2CA8:
2CA8 DD 7E 00
2CAB 0F
2CAC DA B3 2C
2CAF 0F
                                                            1d
                                                                          a, 0(ix)
                                                            rrca
                                                                          C, loc_0_2CB3
                                                            jр
2CAF 0F 2CB0 D2 B8 2C 2CB3 2CB3 DD 19 2CB5 10 F1 2CB7 C9 2CB8 2CB8
                                                            rrca
                                                                          NC, loc_0_2CB8
                              loc_0_2CB3:
                                                                                                                                                  ; CODE XREF: sub_0_2C8F+1D<sup>†</sup> j
                                                            add
                                                                          ix. de
                                                            djnz
ret
                                                                          loc_0_2CA8
 2CB8
2CB8
2CB8
DD 22 AA 62
2CBC DD 36 00 02
2CC0 16 00
2CC2 2E 0A
2CC4 90
2CC5 87
                               loc_0_2CB8:
                                                                                                                                                   ; CODE XREF: sub_0_2C8F+21 j
                                                                           (unk_0_62AA), ix
                                                            ld
ld
                                                                          0(ix), #2
d, #0
                                                            ld
sub
add
                                                                          a, #0xA
b
                                                                          a, a
2CC6 87
2CC7 5F
2CC8 21 80 69
2CCB 19
                                                            add
ld
ld
                                                                          a, a
e, a
hl, #soft_sprite_ram+0x80
hl, de
                                                            add
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 C2 E6 2C
2CE1 3E 01
2CE3 32 86 63
2CE6
                                                            ld
ld
ld
                                                                          (unk_0_62AC), hl
a, #1
                                                                           (barrel_deployment), a
                                                                          de, #0x501
queue_fg_vector_fn
h1, #unk_0_62B1
(h1)
NZ, loc_0_2CE6
                                                            ld
                                                                                                                                                  ; update bonus timer
                                                            call
ld
dec
                                                            jp
ld
ld
                                                                          a, #1
(unk_0_6386), a
 2CE6
 2CE6
                              loc 0 2CE6:
                                                                                                                                                  ; CODE XREF: sub 0 2C8F+4F1 i
                                                                          a, (hl)
#4
                                                            ld
2CE6 7E
2CE7 FE 04
2CE9 D2 F6 2C
2CEC 21 A8 69
2CEF 87
2CF0 87
                                                            cp
jp
ld
add
                                                                          NC, loc_0_2CF6
                                                                                  #soft_sprite_ram+0xA8
                                                                          a, a
a, a
                                                                          e, a
d, #0
                                                            1d
 2CF2 16 00
```

2DC7 13

```
2CF4 19
                                                                       add
                                                                                       hl, de (hl), d
2CF5 72
                                                                      ld
2CF5 72

2CF6

2CF6 DD 36 07 15

2CFA DD 36 08 08

2CFE DD 36 15 00

2D02 3A 82 63

2D05 07

2D06 D2 15 2D
                                   loc_0_2CF6:
                                                                                                                                                                            ; CODE XREF: sub_0_2C8F+5A<sup>†</sup>j; sideways barrel sprite tile
                                                                                       7(ix), #0x15
                                                                                       8(ix), #0xB
0x15(ix), #
                                                                       ld
                                                                       ld
ld
                                                                                       a, (unk_0_6382)
2D05 07
2D06 D2 15 2D
2D09 DD 36 07 19
2D0D DD 36 08 0C
2D11 DD 36 15 01
                                                                       rlca
                                                                       jp
ld
ld
                                                                                       NC, loc 0 2D15
                                                                                       7(ix), #0x19
8(ix), #0xC
0x15(ix), #1
                                                                                                                                                                            ; sideways blue barrel sprite tile
; set blue palette for barrel
                                                                       ld
2D15
2D15
2D15
2D15 21 AF 62
2D15
                                                                                                                                                                            ; CODE XREF: sub_0_2C8F+8<sup>†</sup>j; sub_0_2C8F+77<sup>†</sup>j
                                    loc_0_2D15:
                                                                                       hl, #unk_0_62AF (hl)
                                                                       ld
2D15

2D18 35

2D19 C0

2D1A 36 18

2D1C 3A 8F 63

2D1F A7

2D20 CA 51 2D

2D23 4F

2D24 21 32 38
                                                                      dec
ret
ld
                                                                                       NZ
(hl), #0x18
                                                                       ld
                                                                                       a, (unk_0_638F)
                                                                       and
jp
ld
                                                                                       Z, loc_0_2D51
2D23 4F
2D24 21 32 39
2D27 3A 82 63
2D2A 0F
2D2B DA 2F 2D
2D2F
2D2F
2D2F
2D2F
2D2F 79
                                                                                       hl, #dk_throw_barrel_spr
a, (unk_0_6382)
                                                                       ld
                                                                       ld
rrca
                                                                                       C, loc_0_2D2F
                                                                       jp
dec
                                   loc_0_2D2F:
                                                                                                                                                                            ; CODE XREF: sub_0_2C8F+9C1j
                                                                       ld
                                                                                       a, c
2D2F 79
2D30 87
2D31 87
2D32 87
2D33 4F
2D34 87
2D35 87
2D36 81
                                                                      add
add
add
                                                                                       a, a
a, a
                                                                                       a, a
c, a
a, a
a, a
                                                                       1d
                                                                      add
add
add
2D36 61

2D37 5F

2D38 16 00

2D3A 19

2D3B CD 4E 00

2D3E 21 8F 63

2D41 35
                                                                       1d
                                                                      ld
add
                                                                                       copy_sprites_2_11_data
hl, #unk_0_638F
                                                                       call
ld
2D3E 21 8F 63

2D41 35

2D42 C2 51 2D

2D45 3E 01

2D47 32 AF 62

2D4A 3A 82 63

2D4D 0F 82 3D
                                                                                       (hl)
NZ, loc_0_2D51
                                                                       dec
jp
ld
                                                                                       a, #1 (unk 0 62AF).
                                                                       14
                                                                       ld
                                                                                       a, (unk_0_6382)
                                                                       rrca
2D4E DA 83 2D
                                                                                       C, loc 0 2D83
                                                                      jр
2D51
2D51
2D51
2D51 2A A8 62
                                   loc_0_2D51:
                                                                                                                                                                            ; CODE XREF: sub_0_2C8F+91<sup>†</sup>j; sub_0_2C8F+B3<sup>†</sup>j
                                                                                       hl, (unk 0 62A8)
2D51
                                                                      1d
2D54
2D54
2D54
2D54 7E
                                    loc_0_2D54:
                                                                                                                                                                            ; CODE XREF: sub_0_2C8F+FA|j
                                                                                       a, (hl)
2D55 DD 2A AA 62
2D59 ED 5B AC 62
2D5D FE 7F
2D5F CA 8C 2D
                                                                      ld
ld
cp
                                                                                       ix, (unk_0_62AA)
de, (unk_0_62AC)
#0x7F;
                                                                                       Z, loc_0_2D8C
                                                                       jp
ld
2D62 4F
2D62 4F

2D63 E6 7F

2D65 12

2D66 DD 7E 07

2D69 CB 79

2D6B CA 70 2D

2D6E EE 03
                                                                       and
ld
                                                                                        #0x7F ; ' '
                                                                                       #0x7F;
(de), a
a, 7(ix)
7, c
Z, loc_0_2D70
#3
                                                                                                                                                                            ; sprite data X coord
; sprite tile #
                                                                       ld
                                                                       bit
                                                                      jp
xor
2D70
2D70

2D70

2D70

2D70 13

2D71 12

2D72 DD 77 07

2D75 DD 7E 08

2D78 13

2D79 12
                                    loc_0_2D70:
                                                                                                                                                                            ; CODE XREF: sub_0_2C8F+DC<sup>†</sup> j
                                                                                       (de), a
                                                                                                                                                                            ; sprite tile # (barrel)
; sprite tile #
                                                                       ld
                                                                                       7(ix), a
a, 8(ix)
de
                                                                       ld
                                                                       ld
                                                                       inc
ld
                                                                                        (de), a
2D7A 23
2D7B 7E
2D7C 13
2D7D 12
                                                                                      a, (hl)
de
                                                                       inc
                                                                       inc
                                                                                        (de), a
                                                                       ld
2D7E 23
2D7F 22 A8 62
2D82 C9
                                                                       ld
                                                                                        (unk_0_62A8), hl
                                                                       ret
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+BF<sup>†</sup>j
                                                                                       hl, #barrel_falling_data
(unk_0_62A8), hl
                                                                       ld
ld
                                                                                       loc_0_2D54
2D8C
                                    loc 0 2D8C:
                                                                                                                                                                            ; CODE XREF: sub 0 2C8F+D011
2D8C 21 C3 39
2D8F 22 A8 62
2D92 DD 36 01 01
                                                                                       hl, #barell_rolling_data
(unk_0_62A8), hl
1(ix), #1
                                                                       ld
                                                                       ld
ZD92 DD 36 01 01

2D96 3A 82 63

ZD99 0F

ZD9A DA A5 2D

ZD9D DD 36 01 00

ZDA1 DD 36 02 02

ZDA5

ZDA5 DD 36 00 01
                                                                      ld
rrca
                                                                                       a, (unk_0_6382)
                                                                                       C, loc_0_2DA5
1(ix), #0
2(ix), #2
                                                                       jp
ld
                                                                       ld
                                                                                                                                                                           ; CODE XREF: sub_0_2C8F+10Bfj
                                    loc 0 2DA5:
2DA5 DD 36 00 01
                                                                       ld
                                                                                       0(ix), #1
2DA5 DD 36 00 01

2DA9 DD 36 0F 01

2DAD AF

2DAE DD 77 10

2DB1 DD 77 11

2DB4 DD 77 12

2DB7 DD 77 13

2DBA DD 77 14

2DBA DD 77 14
                                                                      ld
xor
                                                                                       0xF(ix), #1
                                                                                       a
0x10(ix), a
                                                                       ld
                                                                                       0x11(ix), a
0x12(ix), a
0x13(ix), a
                                                                       ld
                                                                      ld
ld
ld
                                                                                       0x14(ix),
                                                                                       (barrel_deployment), a
(unk_0_6392), a
a, (de)
3(ix), a
2DBD
2DC0
2DC3
          32 93 63
32 92 63
1A
                                                                       ld
ld
                                                                       ld
2DC4 DD 77 03
                                                                       1d
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
 2DC9 13
                                                                 inc
                                                                             de
a, (de)
5(ix), a
hl, #dk_normal_spr
copy_sprites_2_l1_data
hl, #soft_sprite_ram+0xB
c, #0xFC; '3'
^x38
                                                                                de
 2DCA
                                                                 ld
2DCA 1A

2DCB DD 77 05

2DCE 21 5C 38

2DD1 CD 4E 00

2DD4 21 0B 69

2DD7 0E FC

2DD9 FF
                                                                 ld
ld
                                                                 call
                                                                 ld
ld
                                                                                                                                                              ; sprite #2, x coord
; -4
                                                                                                                                                              ; subtract 4 from x coord for 10 sprites
                                                                 rst
 2DDA C9
                                                                 ret
 2DDA
2DDA
2DDA
2DDB
                                 ; End of function sub_0_2C8F
2DDB
2DDB
2DDB
2DDB
                                                             SUBROUTINE
                                 sub 0 2DDB:
                                                                                                                                                              ; CODE XREF: 0000:1995 p
2DDB 3E 0A
2DDD F7
2DDE D7
                                                                                a, #0xA
0x30
0x10
                                                                 1d
                                                                                                                                                             ; return if level bit not set
; return if mario not allive
                                                                 rst
DDDE D7
DDDF 3A 80 63
DDE2 3C
DDE3 A7
DDE4 1F
DDE5 47
DDE6 3A 27 62
DDE9 FE 02
DDE9 D0 1
DDED 04
DDEE 02
DDEE 3E FE
DDEE 3F FE
DDF0 37
                                                                 rst
                                                                 1d
                                                                                a, (unk_0_6380)
                                                                 rra
                                                                               b, a a, (level_type)
                                                                 ld
                                                                 ld
cp
                                                                                NZ, loc 0 2DEE
                                                                 jr
                                 loc_0_2DEE:
                                                                                                                                                             ; CODE XREF: sub_0_2DDB+10 j
                                                                                a, #0xFE ; '
                                                                 ld
2DEE 3E FE

2DF0 37

2DF1

2DF1 1F

2DF2 A7

2DF3 10 FC

2DF5 47

2DF6 3A 1A
                                                                 scf
                                 loc_0_2DF1:
                                                                                                                                                             ; CODE XREF: sub_0_2DDB+18|j
                                                                 rra
                                                                 and
                                                                 djnz
ld
                                                                                loc_0_2DF1
                                                                                b, a
          3A 1A 60
                                                                 1d
                                                                                a, (gen_purpose_timer)
b
2DF6 3A 1A 60

2DF9 A0

2DFA C0

2DFB 3E 01

2DFD 32 A0 63

2E00 32 9A 63

2E03 C9
                                                                 and
                                                                                a, #1
(unk_0_63A0), a
(unk_0_639A), a
                                                                 ld
                                                                 ld
                                                                ld
ret
2E03
2E03
                                 ; End of function sub_0_2DDB
2E04
2E04
2E04
2E04
2E04
2E04
2E04
                                                               SUBROUTINE
                                 sub_0_2E04:
                                                                                                                                                              ; CODE XREF: 0000:198F1p
                                                                               a, #4
0x30
0x10
ix, #unk_0_6500
iy, #soft_sprite_ram+0x80
ZEO4 3E 04
ZEO6 F7
ZEO7 D7
ZEO8 DD 21 00 65
ZEOC FD 21 80 69
ZE10 06 0A
ZE12
ZE12
ZE12
ZE12 DD 7E 00
ZE15 OF
ZE16 D2 A7 ZE
ZE19 3A 1A 60
ZE1C E6 OF
ZE1E C2 29 ZE
ZE11 D7 7E 01
ZE24 EE 07
ZE26 FD 77 01
ZE24 EF 07
ZE26 FD 77 01
          3E 04
                                                                 ld
                                                                rst
rst
ld
                                                                                                                                                              ; return if level bit not set
; return if mario not alive
                                                                 ld
                                                                 ld
                                                                                    #0xA
                                 loc_0_2E12:
                                                                                                                                                              ; CODE XREF: sub_0_2E04+7D|j
                                                                               a, 0(ix)
                                                                 ld
                                                                                                                                                              ; any active springs?
                                                                 rrca
                                                                 jp
ld
                                                                                NC, loc_0_2EA7
a, (gen_purpose_timer)
                                                                                a, (9
#0xF
                                                                 and
                                                                                NZ, loc_0_2E29
a, l(iy)
#7
                                                                 jp
ld
                                                                                                                                                              ; animate spring sprites
                                                                 xor
                                                                                1(iy), a
                                                                ld
2E29
2E29
2E29 DD 7E 0D
                                                                                                                                                             ; CODE XREF: sub_0_2E04+1A<sup>†</sup> j
                                 loc_0_2E29:
                                                                 ld
                                                                                a, 0xD(ix)
2E2C FE 04
2E2E CA 84 2E
2E31 DD 34 03
2E34 DD 34 03
                                                                 cp
jp
inc
                                                                                #4
Z, loc_0_2E84
3(ix)
3(ix)
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
                                                                ld
ld
ld
                                                                                1, 0xE(ix)
h, 0xF(ix)
a, (h1)
                                                                                c, a
#0x7F; '
                                                                 ld
                                                                 cp
jp
                                                                                Z, loc_0_2E9C
hl
2E44 23
2E45 DD 86 05
2E48 DD 77 05
2E4B
2E4B DD 75 0E
2E4E DD 74 0F
2E51 DD 7E 03
2E54 FE B7
2E56 DA 6C 2E
                                                                                     5(ix)
                                                                 add
                                                                 ld
                                 loc 0 2E4B:
                                                                                                                                                             ; CODE XREF: sub 0 2E04+A0-j
                                                                                0xE(ix), 1
0xF(ix), h
a, 3(ix)
#0xB7; 'A'
                                                                 ld
                                                                 ld
ld
ZE54 FE B7

ZE56 DA 6C ZE

ZE59 79

ZE5A FE 7F

ZE5C C2 6C ZE

ZE5F DD 36 0D 04

ZE63 AF

ZE64 32 83 60

ZE67 3E 03

ZE69 32 84 60

ZE6C

ZE6C

ZE6C

ZE6C DD 7E 03

ZE6C
                                                                 ср
                                                                                C, loc_0_2E6C
                                                                 jp
ld
                                                                 ср
                                                                jp
ld
xor
ld
                                                                                NZ, loc 0 2E6C
                                                                                0xD(ix), #4
                                                                                                                                                              ; stop timer
                                                                                (digital_snd_tmr_coin_spring), a
                                                                 ld
                                                                                                                                                              ; tmr=3
                                                                                (digital_snd_tmr_kong_fall), a
                                                                 ld
                                                                                                                                                              ; CODE XREF: sub_0_2E04+521j
                                 loc 0 2E6C:
                                                                                                                                                              ; sub_0_2E04+581j ..
```

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

2E78 2E78 2E78 2E78 11 10 00

2E70 2E7B DD 19 2E7D 1E 04

2E7F FD 19

2E81 10 8F

2E78

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

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

iy, de loc\_0\_2E12

a, 5(1. 3(iy),

; x corrd to sprite data

; y coord to sprite data

; next sprite data

; CODE XREF: sub\_0\_2E04+A7|;
; sub\_0\_2E04+CD|;
; 16 bytes/sprite
; next spring data

ld ld

ld

ld

14

add ld

add

djnz

loc\_0\_2E78:

```
2E83 C9
                                                                                                                         ret
 2E84
2E84
2E84
2E84
                                                                                                                                                 a, #3
a, 5(ix)
5(ix), a
#0xF8; '''
C, loc_0_2E6C
3(ix), #0
                                                              loc_0_2E84:
                                                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_2E04+2A j
ZES4 3E 03 CES6 DD 86 05 CES6 DD 86 05 CES6 DD 77 05 CES6 DD 36 03 00 CES5 DD 36 03 00 CES5 DD 36 05 CES6 DE 36 CES6 DE 3
                                                                                                                          add
                                                                                                                          ld
cp
                                                                                                                          jp
ld
                                                                                                                          ld
                                                                                                                                                       loc_0_2E6C
                                                                                                                          jp
                                                              loc_0_2E9C:
                                                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_2E04+3D<sup>†</sup> j
                                                                                                                          ld
                                                                                                                                                      hl, #bouncing_spring_data
                                                                                                                                                      a, #3
(digital_snd_tmr_coin_spring), a
loc_0_2E4B
                                                                                                                                                                                                                                                                                                       ; tmr=3
                                                                                                                          ld
                                                                                                                          1d
                                                                                                                          jр
                                                              loc_0_2EA7:
                                                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_2E04+12 j
                                                                                                                          ld
                                                                                                                                                     a, (unk_0_6396)
                                                                                                                          rrca
                                                                                                                         jp
xor
ld
                                                                                                                                                      NC, loc_0_2E78
 2EAB D2 78 2E
2EAE AF
2EAF 32 96 63
2EB2 DD 36 05 50
2EB6 DD 36 0D 01
2EBA CD 57 00
2EBD E6 0F
2EBF C6 F8
                                                                                                                                                      a
(unk_0_6396), a
5(ix), #0x50; 'P'
0xD(ix), #1
                                                                                                                          ld
                                                                                                                          14
                                                                                                                         call
and
add
                                                                                                                                                       rand
                                                                                                                                                      rand
#0xF
a, #0xF8; '0'
3(ix), a
0(ix), #1
hl, #bouncing_spring_data
0xE(ix), 1
0xF(ix), h
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
2ED1
                                                                                                                         ld
ld
ld
                                                                                                                          ld
                                                                                                                          1d
                                                                                                                          jр
                                                                                                                                                                                                                                                                                                       ; end of spring routine
; End of function sub_0_2E04
                                                                                                                 SUBROUTINE
                                                              sub_0_2ED4:
                                                                                                                                                                                                                                                                                                         ; CODE XREF: 0000:1998↑p
                                                                                                                                                      a, #0xB
0x30
0x10
                                                                                                                          ld
                                                                                                                                                                                                                                                                                                       ; return if level bit not set
; return if mario not alive
; hammers in sprite ram
; hammer character data
                                                                                                                          rst
                                                                                                                          rst
ld
ld
                                                                                                                                                      de, #soft_sprite_ram+0x118 ix, #unk_0_6680
                                                                                                                                                      a, 1(ix)
                                                                                                                          ld
                                                                                                                          rrca
jp
ld
                                                                                                                                                      C, loc_0_2EED
de, #soft_sprite_ram+0x11C
ix, #unk_0_6690
                                                                                                                          1d
  2EED
2EED
                                                              loc_0_2EED:
                                                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_2ED4+F<sup>†</sup> j
ZEED DD 36 0E 00
ZEF1 DD 36 0F F0
ZEF5 3A 17 62
ZEF8 0F
ZEF9 D2 97 2F
ZEFC AF
ZEFD 32 18 62
ZF00 21 89 60
ZF03 36 04
ZF03 36 04
ZF03 36 04
ZF03 36 04
ZF05 DD 36 09 06
ZF09 DD 36 0A 03
ZF0D 06 1E
ZF0F 3A 07 62
ZF12 CB 27
ZF14 D2 1B 2F
ZF17 F6 80
ZF19 CB F8
ZF1B
ZF1B
ZF1B
ZF1B
ZF1B
ZF1B F6 08
ZEF1D 4F
                                                                                                                                                      0xE(ix), #0
0xF(ix), #0xF0; '-'
a, (unk_0_6217)
  2EED DD 36 0E 00
                                                                                                                          ld
                                                                                                                         ld
ld
rrca
                                                                                                                                                      NC, loc_0_2F97
                                                                                                                          jp
xor
                                                                                                                                                      a (unk_0_6218), a hl, #bg_music (hl), #4 9(ix), #6
                                                                                                                          ld
ld
                                                                                                                          ld
                                                                                                                          14
                                                                                                                          ld
ld
                                                                                                                                                      9(1x), #0
0xA(ix), #3
b, #0x1E
a, (mario_flipy_sprite_tile)
a
                                                                                                                          ld
                                                                                                                         sla
jp
                                                                                                                                                      NC, loc_0_2F1B
#0x80; 'Ç'
7, b
                                                                                                                          or
                                                                                                                         set
                                                             loc_0_2F1B:
                                                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_2ED4+40 j
2F1B F6 08
2F1D 4F
2F1C 3A 94 63
2F21 CB 5F
2F23 CA 43 2F
2F26 CB CO
2F28 CB C1
2F2A DD 36 09 05
2F32 DD 36 0F 00
2F34 CB 79
2F36 CA 43 2F
2F37 CA 43 2F
2F37 DD 36 0E 10
2F34 79
                                                                                                                          or
                                                                                                                                                      #8
                                                                                                                          1d
                                                                                                                         ld
bit
                                                                                                                                                                  (unk_0_6394)
                                                                                                                                                     a, (Unk_0_6394)
3, a
2, loc_0_2F43
0, b
0, c
9(ix), #5
0xA(ix), #6
0xF(ix), #0
0xE(ix), #0xF0; '-'
                                                                                                                          jp
set
set
ld
                                                                                                                          ld
                                                                                                                          ld
ld
                                                                                                                                                      7, c
Z, loc_0_2F43
                                                                                                                          bit
                                                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_2ED4+4F^j; sub_0_2ED4+68^j;
                                                             loc_0_2F43:
2F43 79
2F43 79
2F44 32 4D 69
2F47 0E 07
                                                                                                                         ld
ld
ld
                                                                                                                                                      (soft_sprite_ram+0x4D), a
                                                                                                                                                      c, #7
hl, #unk_0_6394
(hl)
NZ, loc_0_2FB7
 2F47 0E 07
2F49 21 94 63
2F4C 34
2F4D C2 B7 2F
                                                                                                                         ld
inc
jp
ld
2F50 21 95 63
2F53 34
2F54 7E
2F55 FE 02
2F57 C2 BE 2F
                                                                                                                                                      hl.
                                                                                                                                                                   #unk_0_6395
                                                                                                                                                       (h1)
                                                                                                                                                      a, (hl)
#2
                                                                                                                         cp
jp
xor
ld
                                                                                                                                                      NZ, loc_0_2FBE
 2F5A AF
2F5B 32 95 63
2F5E 32 17 62
2F61 DD 77 01
                                                                                                                                                       a
(unk_0_6395), a
                                                                                                                          ld
ld
                                                                                                                                                       (unk_0_6217), a
                                                                                                                                                      a, (mario_y_coord)
                            77 01
03 62
44
77 0E
                                                                                                                         ld
neg
                                                                                                                         ld
ld
ld
  2F69 DD
  2F6C 3A 07 62
2F6F 32 4D 69
2F72 DD 36 00 00
                                                                                                                                                      a, (mario_flipy_sprite_tile) (soft_sprite_ram+0x4D), a
                                                                                                                          ld
                                                                                                                                                      0(ix), #0
a, (unk 0 6389)
  2F76 3A 89 63
2F79 32 89 60
                                                                                                                          1d
                                                                                                                                                       (bg_music), a
```

```
2F7C
2F7C EB
2F7C EB
2F7C
2F7D 3A 03 62
                                                                                                                                                           ; CODE XREF: sub_0_2ED4+E0|j; sub_0_2ED4+E7|j ...
                               loc 0 2F7C:
                                                                              de, hl
a, (mario_y_coord)
a, 0xE(ix)
(hl), a
                                                               ex
ld
2F80 DD 86 0E
                                                               add
2F80 DD 86 0E

2F83 77

2F84 DD 77 03

2F87 23

2F88 70

2F89 23

2F8A 71

2F8B 23

2F8C 34 05 62
                                                                             (nl), a
3(ix), a
hl
                                                               ld
ld
                                                               inc
ld
                                                                               (hl), b
                                                               inc
ld
                                                                              hl (hl), c
                                                               inc
                                                                               hl
2F8C 3A 05 62
2F8F DD 86 0F
2F92 77
2F93 DD 77 05
                                                                              a, (mario_x_coord)
a, 0xF(ix)
(h1), a
5(ix), a
                                                               1d
                                                                                                                                                         ; calc hammer Y
                                                               add
ld
                                                               ld
2F93 DD 77 05
2F96 C9
2F97
2F97
2F97 3A 18 62
2F9A 0F
2F9B DO
                                loc_0_2F97:
                                                                                                                                                           ; CODE XREF: sub 0 2ED4+251i
                                                               ld
rrca
                                                                              a, (unk_0_6218)
2F9B D0
2F9C DD 36 09 06
2FAO DD 36 0A 03
2FA4 3A 07 62
2FAA 07
2FA8 3E 3C
2FAA 1F
2FAB 47
2FAB 0E 07
                                                               ret
ld
                                                                              MC ()
9(ix), #6
0xA(ix), #3
a, (mario_flipy_sprite_tile)
                                                               ld
ld
                                                               rlca
                                                                              a, #0x3C ; '<'
                                                               14
                                                               rra
ld
ld
                                                                              b, a
                                                                                                                                                           ; hammer tile #
2FAE 3A 89 60
2FB1 32 89 63
2FB4 C3 7C 2F
2FB7
                                                               ld
ld
                                                                               a, (bg_music)
(unk_0_6389), a
loc_0_2F7C
                                                               jр
2FB7
2FB7
2FB7
2FB7 3A 95 63
2FBA A7
2FBB CA 7C 2F
2FBE
2FBE
                                 loc_0_2FB7:
                                                                                                                                                           ; CODE XREF: sub_0_2ED4+79<sup>†</sup> j
                                                                              a, (unk_0_6395)
                                                               ld
                                                               and
                                                                              Z, loc_0_2F7C
                                 loc 0 2FBE:
                                                                                                                                                           ; CODE XREF: sub_0_2ED4+83 j
2FBE 2FBE 3A 1A 60 2FC1 CB 5F 2FC3 CA 7C 2F 2FC6 0E 01 2FC8 C3 7C 2F
                                                               ld
                                                                               a, (gen_purpose_timer)
                                                               bit
jp
ld
                                                                               3, a
Z, loc_0_2F7C
                                                                                    #1
                                                                               loc 0 2F7C
                                                               jp
2FC8
2FC8
2FCB
2FCB
2FCB
2FCB
2FCB
                                 ; End of function sub_0_2ED4
                                        SUBROUTINE
2FCB
2FCB 3E 0E
2FCD F7
2FCE 21 B4 62
2FD1 35
                                                                                                                                                           ; CODE XREF: 0000:19BF1p
                                sub 0 2FCB:
                                                                              a, #0xE
0x30
h1, #unk_0_62B4
(h1)
                                                               1d
                                                                                                                                                           ; return if level bit not set
                                                               rst
ld
2FCE 21 B4 62
2FD1 35
2FD2 C0
2FD3 3E 03
2FD5 32 B9 62
2FD8 32 96 63
2FDB 11 01 05
2FDE CD 9F 30
2FE1 3A B3 62
2FE4 77
2FE5 21 B1 62
2FE8 35
2FE9 C0
2FEA 3E 01
2FEC 32 86 63
2FEF C9
2FEF
                                                               dec
ret
ld
ld
ld
                                                                             (IL.
NZ
7. #3
                                                                              (unk_0_62B9), a
(unk_0_6396), a
de, #0x501
queue_fg_vector_fn
                                                               ld
call
                                                                                                                                                           ; update_bonus_timer
                                                                              a, (unk_0_62B3)
(h1), a
h1, #unk_0_62B1
(h1)
                                                               ld
ld
                                                               ld
dec
                                                               ret
                                                                               NZ
                                                                               a, #1
(unk_0_6386), a
                                                               ld
                                                               ld
                                                               ret
2FEF
2FEF
2FF0
2FF0
                                 ; End of function sub_0_2FCB
                                ; SUBROUTINE
2FF0
2FF0
2FF0
2FF0
2FF0 7D
2FF1 0F
2FF2 0F
2FF3 0F
2FF4 E6 1F
2FF6 6F
2FF7 7C
2FF8 2F
                                                                                                                                                           ; CODE XREF: 0000:0DB7<sup>†</sup>p; 0000:0DE4<sup>†</sup>p ...
                                get_tilemap_addr_from_coords:
                                                                                                                                                            , 0000:UDE4|p ...
; Y pos in bits [7:3]
                                                               1d
                                                               rrca
                                                               rrca
                                                                                                                                                           ; shift to [4:0]
; store as LSB of screen address
; X pos in bits [7:3]
                                                               and
ld
                                                                               #0x1F
                                                                              l, a
a, h
                                                               ld
                                                               cpl
and
ld
2FF9 E6 F8
2FFB 5F
2FFC AF
                                                                               #0xF8
                                                                              e, a
                                                               xor
2FFD 67
2FFE CB 13
3000 17
3001 CB 13
                                                               ld
rl
rla
                                                                              h, a
                                                               rl
3003 17
3004 C6 74
3006 57
3007 19
                                                                                                                                                           ; A=Xpos bits [7:6], E=[5:3] ; add start of VRAM
                                                               rla
                                                               add
ld
                                                                              a, #0x74 ; 't'
d, a
hl, de
                                                                                                                                                            ; store
; HL = screen address
                                                               add
3008 C9
3008
3008
                                ret; End of function get_tilemap_addr_from_coords
3009
3009
3009
                                         SUBROUTINE
 3009
                                                                                                                                                           ; CODE XREF: 0000:18DF<sup>†</sup>p; sub_0_1AC3+1DB<sup>†</sup>p ...
3009
3009 57
3009
                                sub 0 3009:
                                                               ld
 300A OF
                                                               rrca
300B DA 22 30
300E 0E 93
3010 0F
                                                                              C, loc_0_3022
c, #0x93; 'ô
                                                               rrca
                                                               rrca
3012 D2 17 30
                                                                              NC, loc_0_3017
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
  3015 OE 6C
                                                                                                                                                                                                         c, #0x6C ; '1'
                                                                                                                                                                   ld
   3017
 3017
3017
3017
07
3018 DA 31 30
301B 79
301C E6 F0
301E 4F
301F C3 31 30
                                                                                   loc_0_3017:
                                                                                                                                                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_3009+91j
                                                                                                                                                                   rlca
                                                                                                                                                                                                          C, loc_0_3031
                                                                                                                                                                   jp
ld
                                                                                                                                                                                                           a, c
#0xF0 ; '-'
                                                                                                                                                                    and
                                                                                                                                                                   ld
                                                                                                                                                                                                           c, a
loc_0_3031
                                                                                                                                                                   jр
  3022
3022
3022
3022 0E B4
                                                                                    loc_0_3022:
                                                                                                                                                                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_3009+2<sup>†</sup>j
                                                                                                                                                                   ld
                                                                                                                                                                                                          c, #0xB4 ; '-
  3024 OF
3025 OF
3026 D2 2B 30
3029 OE 1E
                                                                                                                                                                  rrca
rrca
                                                                                                                                                                                                         NC, loc_0_302B
                                                                                                                                                                   jp
ld
302B 302B CB 50 302D CA 31 30 303D CB 3031 3031 3031 3031 3031 3031 3032 CF 3032 CB 303 CB 304 CB 30
                                                                                     loc_0_302B:
                                                                                                                                                                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_3009+1Dfj
                                                                                                                                                                   bit
                                                                                                                                                                                                          2, b z, loc_0_3031
                                                                                                                                                                   jp
dec
                                                                                   loc_0_3031:
                                                                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: sub_0_3009+F<sup>†</sup>j; sub_0_3009+16<sup>†</sup>j ...
                                                                                                                                                                  ld
rrca
                                                                                                                                                                   rrca
                                                                                                                                                                   ld
and
                                                                                                                                                                  cp
jp
ld
rrca
                                                                                                                                                                                                          b
NZ, loc_0_3031
                                                                                                                                                                   rrca
and
                                                                                                                                                                                                          #3
#3
                                                                                                                                                                   cp
ret
                                                                                                                                                                                                                     d
                                                                                                                                                                   res
                                                                                                                                                                                                          2,
d
                                                                                                                                                                   dec
                                                                                                                                                                   ret
ld
                                                                                                                                                                                                         NZ
a, #4
                                                                                                                                                                   ret
                                                                                     ; End of function sub_0_3009
                                                                                                                                                        SUBROUTINE
                                                                                    sub_0_304A:
                                                                                                                                                                                                                                                                                                                                                                                                                      CODE XREF: 0000:0AF0↑p
                                                                                                                                                                                                                                                                                                                                                                                                              ; CODE ARE:
; 0000:0B381p
                                                                                                                                                                  ld
ld
ld
                                                                                                                                                                                                          de, #0xFFE0
                                                                                                                                                                                                                         (unk_0_638E)
                                                                                                                                                                                                          a,
                                                                                                                                                                  ld
ld
call
                                                                                                                                                                                                                       #0
                                                                                                                                                                                                         hl, #VRAM_start+0x200
sub_0_3064
hl, #VRAM_start+0x1C0
                                                                                                                                                                  call
ld
dec
                                                                                                                                                                                                          sub_0_3064
h1, #unk_0_638E
(h1)
                                                                                                                                                                   ret
                                                                                    ; End of function sub 0 304A
                                                                                                                                                           SUBROUTINE
                                                                                    sub_0_3064:
                                                                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: sub_0_304A+C\pi; sub_0_304A+12\pip
                                                                                                                                                                                                         hl, bc
a, (hl)
hl, de
                                                                                                                                                                   add
                                                                                                                                                                  ld
add
                                                                                                                                                                   1d
                                                                                                                                                                                                          (hl), a
                                                                                     ; End of function sub_0_3064
3069 3069 3069 3069 3069 3069 3068 C9 306F 306F 306F 306F 306F 306F 3072 34 3073 7E 3074 E6 07 3076 C0 3077 21 08 69 3080 CD 96 3080 CD 97 3080 CD 96 3080 CD 97 3080 CD 96 3080 CD 97 3080
                                                                                                                                                                                                                                                                                                                                                                                                                     DATA XREF: 0000:0A8010
                                                                                    loc_0_3069:
                                                                                                                                                                  rst
ld
inc
                                                                                                                                                                                                          0x18
hl, (unk_0_63C0)
(hl)
                                                                                                                                                                                                                                                                                                                                                                                                                        wait for 8-bit countdown
                                                                                                                                                                  ret
                                                                                                                                                                SUBROUTINE
                                                                                    sub_0_306F:
                                                                                                                                                                                                                                                                                                                                                                                                               ; CODE XREF: 0000:0AE8<sup>p</sup>; 0000:1732<sup>p</sup>...
                                                                                                                                                                                                          hl, #unk_0_62AF
                                                                                                                                                                   ld
                                                                                                                                                                  inc
ld
and
                                                                                                                                                                                                          (hl)
a, (
#7
                                                                                                                                                                                                                         (hl)
                                                                                                                                                                   ret
                                                                                                                                                                                                          NZ
                                                                                                                                                                                                        hl, #soft_sprite_ram+0xB

c, #0xFC; '3'

0x38

c, #0x81; 'ŭ'

hl, #soft_sprite_ram+9

sub_0_3096
                                                                                                                                                                  ld
ld
rst
ld
                                                                                                                                                                                                                                                                                                                                                                                                             ; sprite #2, x coord
                                                                                                                                                                  ld
call
ld
                                                                                                                                                                                                                                                                                                                                                                                                             ; sprite #2, flipy & code
                                                                                                                                                                                                         hl, #soft_sprite_ram+0x1D
sub_0_3096
                                                                                                                                                                   call
                                                                                                                                                                  call
and
ld
                                                                                                                                                                                                          rand
#0x80 ; 'Ç'
                                                                                                                                                                                                         hl, #soft_sprite_ram+0x2D (hl)
```

xor ld ret

; End of function sub\_0\_306F

3096

(hl), a

SUBROUTINE

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
                                                                                                                                            ; CODE XREF: sub_0_306F+13<sup>p</sup>; sub_0_306F+19<sup>p</sup>
                             sub_0_3096:
 3096 06 02
3096 06
3098
3098
3098 79
3099 AE
309A 77
309B 19
                                                         ld
                                                                      b, #2
                                                                                                                                            ; CODE XREF: sub_0_3096+6|j
                             loc_0_3098:
                                                         ld
                                                                       a, c
(hl)
(hl), a
                                                         xor
ld
add
309C 10
309E C9
309E
309E
         10 FA
                                                                       loc 0 3098
                                                         djnz
                             ret; End of function sub_0_3096
309F
309F
309F
309F
                                                      SUBROUTINE
309F
309F
309F E5
309F
                                                                                                                                             ; CODE XREF: check_coin_inserted+3B\uparrowp ; 0000:01F7\uparrowp ...
                             queue_fg_vector_fn:
309F
30A0 21 C0 60
30A3 3A B0 60
30A6 6F
30A7 CB 7E
30A9 CA BB 30
30AC 72
30AD 2C
30AB 73
30AF 2C
30B0 7D
30B1 FE C0
30B3 D2 B8 30
30B6 3E C0
                                                         push
                                                          ld
                                                                       hl. #fg vector fn params
                                                                       a, (fg_fn_queue_tail)

1, a

7, (hl)
                                                         ld
ld
                                                                                                                                               point to end of queue
                                                         bit
                                                                                                                                            ; empty entry?
; no, exit
; vector number
                                                         jp
ld
inc
                                                                       Z, loc_0_30BB (hl), d
                                                                       l
(hl), e
                                                         ld
inc
                                                                                                                                             ; msq number
                                                                      1
a, 1
#0xC0; 'L'
NC, loc_0_30B8
a, #0xC0; 'L'
                                                         ld
                                                                                                                                             ; new tail
                                                         cp
jp
ld
                                                                                                                                             ; wrap?
; no, skip
30B6 3E C0
30B8
30B8
30B8 32 B0 60
                                                                                                                                            ; CODE XREF: queue_fg_vector_fn+14\dagger);
; store tail
                             loc_0_30B8:
                                                                       (fg fn gueue tail), a
                                                         ld
30BB
30BB
30BB E1
                              loc_0_30BB:
                                                                                                                                            ; CODE XREF: queue_fg_vector_fn+A^ j
                                                                       hl
                                                         pop
30BC C9
30BC
30BC
30BD
                                                         ret
                             ; End of function queue_fg_vector_fn
30BD
30BD
30BD
                                                       SUBROUTINE
                                                                                                                                            ; CODE XREF: 0000:12A3<sup>†</sup>p
; 0000:1615<sup>†</sup>p
 30BD
                             sub 0 30BD:
30BD 30BD 21 50 69 30BD 30C0 06 02 30C2 CD E4 30 30C5 2E 80 30C7 06 0A 30C9 CD E4 30 30CC 2E B8
                                                         ld
ld
                                                                       hl, #soft_sprite_ram+0x50
b, #2
                                                                       sub_0_30E4
1, #0x80;
b, #0xA
                                                         call
                                                         ld
ld
                                                                       sub_0_30E4
                                                         call
30C9 CD E4 30
30CC 2E B8
30CE 06 0B
30D0 CD E4 30
30D3 21 0C 6A
30D6 06 05
30D8 C3 E4 30
30D8
                                                         1d
                                                                       1, #0xB8;
b, #0xB
                                                         ld
                                                                       sub_0_30E4
                                                         call
ld
                                                                       hl, #soft_sprite_ram+0x10C
b, #5
                                                         1d
                             jp sub_0_30E4
; End of function sub_0_30BD
30DB
30DB
30DB
30DB
30DB
30DB
30DB 21 4C 69
30DE 36 00
30E0 2E 58
30E2 06 06
30E2
30E2
30E2
                                                         SUBROUTINE
                             sub_0_30DB:
                                                                                                                                            ; CODE XREF: 0000:12DF1p
                                                         ld
ld
                                                                       hl, #soft_sprite_ram+0x4C
(hl), #0
1, #0x58; 'X'
b, #6
                                                         ld
                             ld b, #
; End of function sub_0_30DB
30E4
30E4
30E4
30E4
                                                       SUBROUTINE
30E4
30E4
30E4
7D
30E4
30E5
30E5
30E5
30E7 C6 04
30E9 6F
30EC C9
30EC
30EC
30EC
30EC
30ED
30ED
30ED
                                                                                                                                             ; CODE XREF: sub_0_30BD+5↑p; sub_0_30BD+C↑p ...
                             sub_0_30E4:
                                                                       a, 1
                                                         ld
                             loc_0_30E5:
                                                                                                                                            ; CODE XREF: sub_0_30E4+6|j
                                                                       (hl), #0
a, #4
l, a
                                                         add
                                                         ld
                                                         djnz
                                                                       loc_0_30E5
                                                         ret
                              ; End of function sub_0_30E4
                                                         SUBROUTINE
30ED
30ED
30ED
30ED CD FA 30
30FD CD 3C 31
30F3 CD B1 31
30F6 CD F3 34
30F9 C9
30F9
                              sub_0_30ED:
                                                                                                                                             ; CODE XREF: 0000:198C1p
                                                                       sub_0_30FA
sub_0_313C
                                                         call
                                                                                                                                             ; spawn fireballs?
                                                         call
                                                         call
                                                                       sub_0_31B1
sub_0_34F3
                                                                                                                                                process fireball AI?
add fireballs to sprite display
                                                         ret
30F9
30F9
30F9
30FA
30FA
30FA
30FA
30FA 3A 80 63
30FF 38 02
3101 3E 05
3103
3103 EF
3103
3104 10 31
                              ; End of function sub_0_30ED
                                                         SUBROUTINE
                              sub_0_30FA:
                                                                       a, (unk_0_6380)
#6
                                                                                                                                             ; CODE XREF: sub_0_30ED1p
                                                         ld
                                                         cp
jr
ld
```

C, loc\_0\_3103 a, #5

.dw loc\_0\_3110 .dw loc\_0\_3110

; CODE XREF: sub\_0\_30FA+5<sup>†</sup>j

; Jump table

loc\_0\_3103:

3104 10 31

3106 10 31

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
                                                                  .dw loc_0_311B
.dw loc_0_3126
.dw loc_0_3126
.dw loc_0_3131
  3108 1B 31
loc_0_3110:
                                                                                                                                                                ; DATA XREF: sub_0_30FA+A o
                                                                                                                                                                ; sub_0_30FA+C↑o
                                                                  ld
                                                                                      (gen_purpose_timer)
                                                                  and
                                                                  cp
ret
                                                                                  #1
Z
                                                                  inc
                                                                                  sp
                                  loc_0_311B:
                                                                                                                                                               ; DATA XREF: sub_0_30FA+E o
                                                                  ld
and
                                                                                 a, (gen_purpose_timer)
#7
                                                                  cp
ret
inc
                                                                                  #5
                                                                                  sp
                                                                                  sp
                                                                  ret
                                  loc_0_3126:
                                                                                                                                                                ; DATA XREF: sub 0 30FA+10 o
                                                                                                                                                                ; sub_0_30FA+121c
                                                                  ld
and
cp
                                                                                  a,
#3
#3
                                                                                        (gen_purpose_timer)
                                                                  ret
inc
inc
                                                                                  sp
                                                                  ret
                                  loc_0_3131:
                                                                                                                                                                ; DATA XREF: sub_0_30FA+14↑o
                                                                                 a, (gen_purpose_timer)
#7
#7
M
                                                                  ld
                                                                  and
cp
                                                                  ret
inc
inc
ret
                                                                                  sp
                                                                                  sp
                                   ; End of function sub_0_30FA
                                                                SUBROUTINE
                                  sub_0_313C:
                                                                                                                                                                ; CODE XREF: sub_0_30ED+3\u00e1p
; fireball character data
                                                                                  ix, #unk_0_6400
                                                                  ld
  3140 AF
3141 32 A1 63
3144 06 05
3146 11 20 00
                                                                  xor
ld
ld
                                                                                  a (unk_0_63A1), a
                                                                                 b, #5
de, #0x20 ; ' '
 3146 11 20 00
3149 DT 7E 00
3142 FE 00
3145 CA 7C 31
3151 3A A 63
3154 C 7C 31
3155 32 A1 63
3158 3E 01
315A DT 77 08
315D 3A 17 62
3160 FE 01
3162 C2 6A 31
3165 3E 00
3167 DD 77 08
                                                                  ld
                                   loc_0_3149:
                                                                                                                                                                ; CODE XREF: sub_0_313C+30|j
                                                                                  a, 0(ix)
#0
                                                                  ld
                                                                  cp
jp
ld
inc
                                                                                 Z, loc_0_317C
                                                                                  a, (unk_0_63A1)
                                                                                  (unk_0_63A1), a
                                                                  ld
                                                                  ld
ld
ld
                                                                                 a, (unk_0_6217)
#1
                                                                  cp
jp
ld
                                                                                 NZ, loc_0_316A
a, #0
                                                                                  a, #0
8(ix), a
                                                                  ld
  316A
316A DD 19
316A
                                                                                                                                                                ; CODE XREF: sub_0_313C+26<sup>†</sup>j; sub_0_313C+45<sup>†</sup>j ...
                                  loc_0_316A:
                                                                                  ix. de
                                                                  add
 316C 10 DB
316E 21 A0 63
3171 36 00
3173 3A A1 63
3176 FE 00
3179 33
3178 C0
3179 33
317A 33
317C 317C 317C 317C 317C 317C 317C 317F FE 05
3181 CA 6A 31
3184 3A 27 62
3187 FE 02
3189 C2 95 31
3187 4F 02
3187 5E 02
3187 6E 02
3187 6E 02
3187 6E 03
3187 4F 09
3198 C2 6A 31
3198 FE 01
3193 B9
3194 C8
3195 3A A0 63
3198 FE 01
3195 3A A0 63
3198 FE 01
3190 DD 77 00
31A0 DD 77 00
31A0 DD 77 18
                                                                  djnz
ld
ld
                                                                                  loc_0_3149
hl, #unk_0_63A0
(hl), #0
                                                                                 a, (unk_0_63A1)
                                                                  ld
                                                                  cp
ret
                                                                  inc
                                                                                  sp
                                                                                                                                                               ; CODE XREF: sub_0_313C+12 j
                                  loc 0 317C:
                                                                                 a, (unk_0_63A1)
#5
Z, loc_0_316A
                                                                  ld
cp
                                                                  jp
ld
cp
jp
ld
                                                                                       (level_type)
                                                                                                                                                                ; cement level?
; no, continue
; cement level timers
                                                                                 NZ, loc_0_3195
a, (unk_0_63A1)
                                                                                 a, (unk_0_63A1)
c, a
a, (unk_0_6380)
                                                                  ld
ld
                                                                  ср
                                                                  ret
                                   loc_0_3195:
                                                                                                                                                                ; CODE XREF: sub_0_313C+4D<sup>†</sup>j; spawn a fireball
                                                                                 a, (unk_0_63A0)
#1
                                                                  ld
                                                                  cp
jp
ld
ld
                                                                                  NZ, loc_0_316A
0(ix), a
                                                                                 0(ix), a
0x18(ix), a
                                                                  xor
ld
ld
 31A3 AF
31A4 32 AO 63
31A7 3A AI 63
31AA 3C
31AB 32 AI 63
31AE C3 6A 3I
31AE
                                                                                  (unk_0_63A0), a
a, (unk_0_63A1)
                                                                  inc
                                                                                   (unk_0_63A1), a
                                                                  ld
```

jp loc\_0\_316A
; End of function sub\_0\_313C

31AE 31B1

```
; CODE XREF: sub_0_30ED+61p
31B4 AF
31B5 32 A2 63
31B8 21 E0 63
31BB 22 C8 63
                                                                             (unk_0_63A2), a
h1, #unk_0_63E0
(unk_0_63C8), h1
                                                              ld
                                                              ld
31BE
31BE
31BE
31C1
                                loc_0_31BE:
                                                                                                                                                         ; CODE XREF: sub_0_31B1+28 | j
         2A C8 63
01 20 00
                                                                             hl, (unk_0_63C8)
                                                                             hl, bc, #0x20; 'hl, bc (unk_0_63C8), hl
a, (hl)
                                                              ld
31C1 01 20 00
31C4 09
31C5 22 C8 63
31C8 7E
31C9 A7
31CA CA D0 31
31CD CD 02 32
31D0
                                                              add
                                                              ld
ld
                                                              and
                                                                             Z, loc_0_31D0
sub_0_3202
                                                              jp
call
31D0
31D0
31D0 3A A2 63
31D3 3C
31D4 32 A2 63
31D7 FE 05
31D9 C2 BE 31
31DC C9
31DC
                                loc_0_31D0:
                                                                                                                                                        ; CODE XREF: sub 0 31B1+191i
                                                              ld
inc
ld
                                                                             a, (unk_0_63A2)
                                                                              (unk_0_63A2), a
                                                              cp
jp
ret
                                                                             NZ, loc_0_31BE
                                ; End of function sub_0_31B1
31DD
31DD
31DD
                                 ; SUBROUTINE SUBROUTINE
sub_0_31DD:
                                                                             a, (unk_0_6380)
#3
                                                                                                                                                         ; CODE XREF: sub_0_31B1\p
                                                              ld
                                                              ср
                                                              ret
call
                                                                              sub_0_31F6
                                                              ср
                                                              ret
                                                                             NZ
                                                                             NZ
h1, #unk_0_6439
a, #2
(h1), a
h1, #unk_0_6479
a, #2
(h1), a
                                                              ld
ld
ld
                                                              ld
                                                              ld
ld
                                                              ret
                                ; End of function sub_0_31DD
31F5
31F6
31F6
                                                            SUBROUTINE
31F6
31F6
31F6
                                                                                                                                                         ; CODE XREF: sub_0_31DD+6<sup>p</sup>
                                sub_0_31F6:
31F6 3A 18 60
31F9 E6 03
31FB FE 01
31FD C0
31FE 3A 1A 60
3201 C9
                                                              1d
                                                                                   (random no)
                                                              and
                                                              ср
                                                              ret
                                                                             NZ
31FE
3201
3201
3201
                                                              1d
                                                                             a, (gen_purpose_timer)
                                ret; End of function sub_0_31F6
32002

32002

32002

32002

32002

32002

32002

32006 DD 7E 18

3209 FE 01

3208 CA 7A 32

3206 DD 7E 0D

3211 FE 04

3213 F2 30 32

3216 DD 7E 19

3216 DD 7E 19

3219 FE 02

3218 CA 7E 32

321E CD 0F 33
3202
                                                             SUBROUTINE
                                sub_0_3202:
                                                                                                                                                         ; CODE XREF: sub_0_31B1+1Cfp
                                                                             ix, (unk_0_63C8)
a, 0x18(ix)
#1
                                                              ld
ld
                                                              cp
jp
ld
                                                                             Z, loc_0_327A
a, 0xD(ix)
                                                              cp
jp
ld
cp
jp
call
ld
and
                                                                             P, loc_0_3230
a, 0x19(ix)
#2
                                                                                  loc_0_327E
321B CA 7E 32
321E CD 0F 33
3221 3A 18 60
3224 E6 03
3226 C2 33 32
3229
3229 DD 7E 0D
                                                                             sub_0_330F
a, (random_no)
#3
                                                                             NZ, loc 0 3233
                                                              jр
                                loc_0_3229:
                                                                                                                                                         ; CODE XREF: sub_0_3202+7F|j
                                                              ld
                                                                             a, 0xD(ix)
322C A7
322D CA 57 32
3230
3230
3230 CD 3D 33
3233
3233
3233 DD 7E 0D
3236 EE 04
 322C A7
                                                              and
                                                                             Z, loc_0_3257
                                                              jр
                                                                                                                                                         ; CODE XREF: sub 0 3202+111 j
                                loc_0_3230:
                                                              call
                                                                             sub_0_333D
                                loc_0_3233:
                                                                                                                                                         ; CODE XREF: sub_0_3202+24 j
                                                              ld
                                                                             a, 0xD(ix)
3233 DD 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
324A DD 7E 0E
324D FE 10
324F DA 8C 32
3252 FE F0
3254 DZ 84 32
3257
                                                              cp
jp
call
                                                                                 . loc 0 3291
                                                                             sub_0_33AD
sub_0_298C
                                                                            #1
Z, loc_0_3297
ix, (unk_0_63C8)
a, 0xE(ix)
                                                              cp
jp
ld
ld
                                                              cp
jp
                                                                             "0xF0" ; '-'
NC, loc_0_328C
"0xF0" ; '-'
NC, loc_0_3284
                                                              ср
                                                              jp
3257
3257
3257
3257 DD 7E 13
3257
                                loc_0_3257:
                                                                                                                                                         ; CODE XREF: sub_0_3202+2B<sup>†</sup>j; sub_0_3202+87<sup>†</sup>j ...
                                                                             a, 0x13(ix)
#0
                                                              ld
325A FE 00
325C C2 B9 32
325F 3E 11
                                                              ср
                                                                             NZ, loc_0_32B9
                                                              jp
1d
                                                                             a, #0x11
                                 loc_0_3261:
                                                                                                                                                        ; CODE XREF: sub_0_3202+B8|j
 3261 DD 77 13
                                                                             0x13(ix), a
                                                              ld
3264 16 00
3266 5F
                                                                             d, #0
e, a
                                                              1d
```

; CODE XREF: sub 0 32D6+2A-j

; CODE XREF: sub\_0\_32D6+51j

; CODE XREF: sub\_0\_32D6+1B<sup>†</sup>j

sub

ld

ret

jр

loc\_0\_32F8:

loc\_0\_32FD:

loc\_0\_3303:

32F8 DD 36 0D 00

32FD DD 35 1C 3300 C2 F8 32

32FC C9 32FD

32FD 32FD

3303

C, loc\_0\_3303
0x1C(ix), #0xFF

0xD(ix), #0

0x1C(ix)
NZ, loc\_0\_32F8

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
 3303 DD 36 19 00
3307 DD 36 1C 00
                                                                                                                                             0x19(ix), #0
                                                                                                                                             0x1C(ix), #0
                                                                                                                 ld
 330B
330B CD OF 33
                                                          loc_0_330B:
                                                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_32D6+Dfj
                                                                                                                 call
                                                                                                                                             sub_0_330F
 330E C9
330E
330E
330F
                                                          ret; End of function sub_0_32D6
330F
330F
330F
330F
                                                                        SUBROUTINE
                                                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_3202+1C^p; sub_0_32D6+35^p
                                                          sub_0_330F:
330F DD 7E 16

330F DD 7E 16

3312 FE 00

3314 C2 32 33

3317 DD 36 16 2B

331B DD 36 0D 00

331F 3A 18 60

3322 0F
                                                                                                                                            a, 0x16(ix)
#0
                                                                                                                  ld
                                                                                                                  ср
                                                                                                                                             NZ, loc_0_3332
                                                                                                                 jp
ld
ld
ld
                                                                                                                                            0x16(ix), #0x2B; '+'
0xD(ix), #0
a, (random_no)
rrca
                                                                                                                                            NC, loc_0_3332
a, 0xD(ix)
#1
                                                                                                                  jp
ld
                                                                                                                 cp
jp
ld
                                                                                                                                             Z, loc_0_3336
                                                         loc_0_3332:
                                                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_330F+5<sup>†</sup>j
; sub_0_330F+14<sup>†</sup>j ...
                                                                                                                                             0x16(ix)
                                                          loc_0_3336:
                                                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_330F+1C j
                                                                                                                 ld
                                                                                                                                              0xD(ix)
                                                          jp loc_
; End of function sub_0_330F
                                                                                                                                             loc 0 3332
SUBROUTINE
                                                          sub 0 333D:
                                                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_3202+2E<sup>p</sup>
333D D 7E 0D 3340 FE 08 3342 CA 71 33 3345 FE 04 3347 CA 8A 33 334A CD A1 33 3350 C6 08 3352 57 3353 DD 7E 0E 3356 01 15 00 335C A7 335D CA 99 33 3360 DD 70 1F 3363 3A 05 62 3366 A7 367 DD 7E 0F 336A 90 336C DD 36 0D 04 3370 C9 3371 3371 3371 3371 3371 DD 7E 0F 3367 DD 7E 0F 3367 DD 7E 0F 3368 A90 3368 DO 34 370 C9 3367 DD 7E 0F 3368 A90 3368 DD 36 0D 04 3370 C9 3371 3371 3371 3371 3371 DD 7E 0F 3374 C6 08 3376 DD 46 1F
                                                                                                                  ld
                                                                                                                                             a, 0xD(ix)
                                                                                                                                             #8
Z, loc_0_3371
                                                                                                                  cp
jp
                                                                                                                 cp
jp
call
                                                                                                                                             #4
                                                                                                                                                      loc 0 338A
                                                                                                                                            Z, loc_0_3
sub_0_33A1
a, 0xF(ix)
a, #8
d, a
a, 0xE(ix)
bc, #0x15
                                                                                                                  add
                                                                                                                 ld
ld
ld
                                                                                                                                            sub_0_236E
a
Z, loc_0_3399
0x1F(ix), b
                                                                                                                 call
and
jp
ld
                                                                                                                 ld
ld
ld
                                                                                                                                            a, (mario_x_coord)
b, a
a, 0xF(ix)
b
                                                                                                                  sub
                                                                                                                 ret
ld
ret
                                                                                                                                             NC
                                                                                                                                             0xD(ix), #4
                                                          loc_0_3371:
                                                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_333D+5<sup>†</sup>j
                                                                                                                                             a, 0xF(ix)
                                                                                                                  ld
3371 DD 7E 0F

3374 C6 08

3376 DD 46 1F

3379 B8

337A C0

337B DD 36 0D 00

337F DD 7E 19

3382 FE 02

3384 C0
                                                                                                                 add
ld
cp
                                                                                                                                            a, #8
b, 0x1F(ix)
b
NZ
                                                                                                                  ret
                                                                                                                                            0xD(ix), #0
a, 0x19(ix)
#2
                                                                                                                 ld
ld
                                                                                                                  cp
ret
3384 CO
3385 DD 36 1D 01
3389 C9
338A
338A
338A
338A
338B DD 7E 0F
338D C6 08
338F DD 46 1F
3392 B8
3393 CO
3394 DD 36 0D 00
3398 C9
3399
3399
3399
3399
3399
DD 70 1F
                                                                                                                                             NZ
                                                                                                                  1d
                                                                                                                                             0x1D(ix), #1
                                                          loc_0_338A:
                                                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_333D+A^jj
                                                                                                                                             a, 0xF(ix)
                                                                                                                  add
ld
                                                                                                                                             a, #8
b, 0x1F(ix)
                                                                                                                  cp
ret
                                                                                                                                             0xD(ix), #0
                                                                                                                  ld
                                                         loc_0_3399:
                                                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_333D+201j
3399 DD 70 1F
339C DD 36 OD 08
33AO C9
33AO
                                                                                                                                            0x1F(ix), b
0xD(ix), #8
                                                                                                                 1d
                                                                                                                 ld
                                                                                                                  ret
33A0

33A0

33A1

33A1

33A1

33A1

33A1

33A1

33A1

33A3

33A3

57

33A4 DD 7E 0F

33A7 FE 59

33A9 DO

33A9 DO

33A9 AS

33A9 BO

33A0

33A0
                                                          ; End of function sub 0 333D
                                                                                                            S U B R O U T I N E
                                                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_333D+D^p
                                                           sub_0_33A1:
                                                                                                                                            a, #7
0x30
a, 0xF(ix)
#0x59; 'Y'
                                                                                                                  ld
                                                                                                                                                                                                                                                                                      ; return if level bit not set
                                                                                                                  rst
                                                                                                                 ld
cp
                                                                                                                  ret
                                                                                                                                             NC
                                                                                                                                             sp
                                                                                                                 inc
                                                            ; End of function sub_0_33A1
 33AD
33AD
```

SUBROUTINE

33AD 33AD

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
33AD
                      sub_0_33AD:
                                                                                                         ; CODE XREF: sub_0_3202+391p
                                                     a, 0xD(ix) #1
33AD DD 7E 0D
                                           ld
33AD DD 7E 0D

33B0 FE 01

33B2 CA D9 33

33B5 DD 7E 07

33B8 E6 7F

33BA DD 77 07
                                           cp
jp
ld
                                                     #1
Z, loc_0_33D9
a, 7(ix)
#0x7F; ''
7(ix), a
                                                                                                         ; reset hflip
                                           and
                                           ld
                                                                                                         ; sprite tile #
33BD DD 35 0E
33C0
33C0
33C0 CD 09 34
33C0
33C0
                      loc_0_33C0:
                                                                                                         ; CODE XREF: 0000:33E4-j
                                           call
                                                     sub_0_3409
                      ; End of function sub_0_33AD
SUBROUTINE
                      sub_0_33C3:
                                                                                                         ; CODE XREF: sub_0_3202+A91p
                                                     a, (level_type)
#1
                                           ld
                                           ср
                                           ret
                                                     NZ
                                                     h, 0xE(ix)
1, 0xF(ix)
b, 0xD(ix)
                                           ld
ld
                                           ld
                                                     sub 0 2333
                                           call
                                           ld
ret
                      ; End of function sub_0_33C3
                      loc_0_33D9:
                                                                                                         ; CODE XREF: sub_0_33AD+5^j
33D9 DD 7E 07
33DC F6 80
33DE DD 77 07
33E1 DD 34 0E
                                                     a, 7(ix)
#0x80; 'Ç'
7(ix), a
                                                                                                         ; sprite tile #
; set hflip
                                           1d
                                           or
ld
                                           inc
                                                     0xE(ix)
jp
                                                     loc_0_33C0
                                           SUBROUTINE
                                                                                                         ; CODE XREF: sub_0_3202+8F<sup>†</sup>p
                      sub_0_33E7:
                                           call
ld
                                                     sub 0 3409
                                                         0xD(ix)
                                           cp
jp
ld
and
                                                     NZ, loc_0_3405
                                                     a, 0x14(ix)
                                                     NZ, loc_0_3401
0x14(ix), #2
                                           jp
ld
                                                     0xF(ix)
                                           ded
                                           ret
                      loc 0 3401:
                                                                                                         ; CODE XREF: sub 0 33E7+F1 j
                                           dec
                                                     0x14(ix)
                                           ret
                      loc_0_3405:
                                                                                                         ; CODE XREF: sub_0_33E7+81j
                                                     0xF(ix)
                                           ret
                      ; End of function sub 0 33E7
                                         SUBROUTINE
                      sub_0_3409:
                                                                                                         ; CODE XREF: sub_0_33AD+13<sup>p</sup>;
; sub_0_33E7<sup>p</sup>
                                           ld
and
                                                     a, 0x15(ix)
                                                     a
NZ, loc_0_3428
                                           jp
ld
inc
                                                     0x15(ix), #2
7(ix)
a, 7(ix)
#0xF
                                                                                                         ; inc fireball animation
                                           ld
                                           and
                                           cp
ret
ld
                                                                                                         ; last animation frame?
; no, return
                                                     #0xF
                                                     NZ
a, 7(ix)
#2
                                                                                                         ; reset animation frame
                                           xor
                                           1d
                                                     7(ix), a
                      loc_0_3428:
                                                                                                         ; CODE XREF: sub_0_3409+4 j
                                           dec
                                                     0x15(ix)
                      ret; End of function sub_0_3409
                                         SUBROUTINE
                      sub_0_342C:
                                                                                                         ; CODE XREF: sub_0_32BD+11\pr
                                           ld
                                                     1, 0x1A(ix)
                                           ld
xor
ld
                                                     h, 0x1B(ix)
a
bc, #0
                                                     hl, bc
NZ, loc_0_3442
hl, #fireball_bounce_data
3(ix), #0x26; '&'
                                           ado
                                           jp
ld
                                           ld
```

; CODE XREF: sub\_0\_342C+C<sup>†</sup> j

; CODE XREF: sub\_0\_3478+2D|j; sub\_0\_3478+3E|j

loc\_0\_3442:

loc 0 3445:

344E 23 344F DD 75 1A 3452 DD 74 1B

ld cp jp ld

1d

a, (hl) #0xAA; '¬'

```
Page: 79
```

```
3455 C9
                                                          ret
 3456
loc_0_3456:
                                                                                                                                             ; CODE XREF: sub_0_342C+1C↑j
                                                                       ld
                                                          ld
ld
ld
ld
ld
                                                          ld
                                                          1d
                                                          ld
                                                          ret
                              ; End of function sub 0 342C
                                                       SUBROUTINE
                              sub_0_3478:
                                                                                                                                             ; CODE XREF: sub_0_32BD+15\p
                                                          ld
                                                                        1, 0x1A(ix)
                                                          ld
                                                                        h, 0x1B(ix)
                                                          xor
ld
                                                                        a bc, \#0
                                                          ado
                                                                        hl, bc
                                                                       hl, #cement_fireball_data
a, (mario_y_coord)
7, a
                                                          jp
ld
ld
348D CB 7F
348F CA A8 34
3492 DD 36 0D 01
3496 DD 36 03 7E
349A
349A
349A
349A
349A
349B FE 01
349F C2 B3 34
34A2 DD 34 03
34A5 C3 45 34
34A8
                                                          bit
                                                                        Z, loc_0_34A8

0xD(ix), #1

3(ix), #0x7E; '~'
                                                          jp
ld
ld
                                                                                                                                             ; CODE XREF: sub_0_3478+C^j; sub_0_3478+38|j
                              loc_0_349A:
                                                                       a, 0xD(ix)
#1
                                                          ld
                                                          cp
jp
inc
                                                                        #1
NZ, loc_0_34B3
3(ix)
loc_0_3445
                                                          qŗ
34A5 C3 45 34
34A8
34A8
34A8 DD 36 OD 02
34AC DD 36 03 80
34B0 C3 9A 34
34B3
34B3
                                                                                                                                             ; CODE XREF: sub_0_3478+17<sup>†</sup> j
                              loc_0_34A8:
                                                                        0xD(ix), #2
3(ix), #0x80; 'Ç'
                                                          ld
                                                          14
                                                                        loc_0_349A
                                                          jp
 34B3
34B3 DD 35 03
34B6 C3 45 34
                              loc_0_34B3:
                                                                                                                                             ; CODE XREF: sub_0_3478+271j
                                                                        3(ix)
                              jp loc_0_3445; End of function sub_0_3478
 34B6
 34B6
34B9
34B9
                                                        SUBROUTINE
34B9 34B9 34B9 34B9 34B9 34B0 FE 03 34BE C8 34BF 3A 03 62 34C2 CB 7F 34C4 C2 ED 34 34CA 34CA 34CA 34CA 34CA 34CA 34CA 6 00 34CC 3A 19 60 34CC B6 06 34D1 4F
                               sub_0_34B9:
                                                                                                                                              ; CODE XREF: sub_0_32BD+D^p
                                                                        a, (level_type)
#3
                                                          ld
                                                          cp
ret
ld
                                                                       a, (mario_y_coord)
7, a
                                                          bit
                                                                        7, a
NZ. loc 0 34ED
                                                                        hl, #rivet_fireball_data
                              loc_0_34CA:
                                                                                                                                             ; CODE XREF: sub 0 34B9+37-1
                                                                       b, #0
a, (random_no+1)
#6
                                                          14
                                                          ld
                                                                     c, a
hl, bc
a, (hl)
3(ix), a
0xE(ix), a
hl
34CF E6 06
34D1 4F
34D2 09
34D3 7E
34D4 DD 77 0E
34DA 23
34DB 7F
34DB 77 0F
34DE DD 77 0F
34DE DD 77 0F
34E2 AF
34E3 DD 77 0F
34E6 DD 77 18
34E6 DD 77 16
34E6 C9
34ED
34ED
34ED
                                                          and
                                                          1d
                                                          add
ld
ld
                                                          ld
inc
                                                                        a, (hl)
5(ix),
                                                          ld
                                                          ld
xor
ld
                                                                        0xF(ix), a
                                                                        a = 0xD(ix), a
                                                                        0x18(ix), a
0x1C(ix), a
                                                          ld
                                                          ld
ret
 34ED
34ED 21 D4 3A
34F0 C3 CA 34
                              loc_0_34ED:
                                                                                                                                              ; CODE XREF: sub_0_34B9+B<sup>†</sup>j
                                                                        hl, #rivet_fireball_start_points
                                                          ld
                                                                        loc_0_34CA
                                                          jр
 34F0
34F0
34F3
34F3
                               ; End of function sub_0_34B9
                                                         SUBROUTINE
 34F3
34F3
34F3
34F3
34F3
21 00 64
34F6 11 D0 69
34F9 06 05
34FB
                                                                                                                                              ; CODE XREF: sub_0_30ED+9<sup>↑</sup>p; fireball character data; fireballs in sprite ram; 5 fireballs (max)
                              sub_0_34F3:
                                                          ld
                                                                        hl. #unk 0 6400
                                                                        de, #soft_sprite_ram+0xD0
b, #5
                                                          ld
                                                          ld
; CODE XREF: sub 0 34F3+28 -
                              loc_0_34FB:
                                                          ld
and
                                                                        a, (hl)
                                                                       Z, loc_0_351E
                                                          jp
inc
inc
inc
                                                                       a, (hl
(de),
a, #4
a, l
l, a
                                                                             (hl)
                                                          ld
                                                                                                                                            ; fireball X coordinate
                                                          ld
ld
                                                          add
 3508 6F
                                                          1d
 3509 1C
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
     350A
                                                                                                                                                                                                                                                                                                                                                                                                                            ; fireball sprite tile #
                          7E
12
2C
1C
7E
12
2D
2D
2D
                                                                                                                                                                                                                                 (hl)
     350B
                                                                                                                                                                          ld
                                                                                                                                                                                                                   (de), a
    350D
350D
350E
                                                                                                                                                                          inc
inc
ld
                                                                                                                                                                                                                                                                                                                                                                                                                           ; fireball palette
   350E 7E
350F 12
3510 2D
3512 2D
3513 1C
3514 7E
3515 12
3516 13
3517 3517
3517 3E
3519 85
3518 6F
                                                                                                                                                                                                                   (de), a
                                                                                                                                                                          ld
                                                                                                                                                                         dec
dec
dec
                                                                                                                                                                                                                 e
a, (hl)
(de), a
                                                                                                                                                                          inc
                                                                                                                                                                          ld
                                                                                                                                                                                                                                                                                                                                                                                                                           ; fireball Y coord
                                                                                                                                                                           ld
                                                                                                                                                                          inc
                                                                                                                                                                                                                  de
                                                                                       loc_0_3517:
                                                                                                                                                                                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_34F3+33|j
                            3E 1B
                                                                                                                                                                          ld
                                                                                                                                                                                                                  a, #0x1B
  3519 85
351A 6F
351B 10 DE
351D C9
351E
351E
351E
351E 3E 05
3520 85
3521 6F
3522 3E 04
3525 5F
                                                                                                                                                                          add
                                                                                                                                                                                                                  a. 1
                                                                                                                                                                          1d
                                                                                                                                                                                                                   loc_0_34FB
                                                                                                                                                                          ret
                                                                                        loc_0_351E:
                                                                                                                                                                                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_34F3+A1j
                                                                                                                                                                          ld
                                                                                                                                                                                                                 a, #5
                                                                                                                                                                                                                 a, #5
a, 1
1, a
a, #4
                                                                                                                                                                          add
                                                                                                                                                                         ld
ld
                                                                                                                                                                          add
                                                                                                                                                                                                                  a, e
e, a
                                                                                                                                                                          14
    3525 5F
3526 C3 17 35
3526
3526
                                                                                        jp loc_0_3517
; End of function sub_0_34F3
    3526
3529 00 00 00
3529
352C 00 01 00
                                                                                        bonus_points_tbl:.db 0, 0, 0
                                                                                                                                                                                                                                                                                                                                                                                                                                     DATA XREF: add_bonus_and_update_high_score+9<sup>o</sup>
                                                                                                                                                                                                                                                                                                                                                                                                                                     0 pts
100 pts
                                                                                                                                                                            .db 0, 1,
    352F
3532
3535
                          00 02 00
00 03 00
00 04 00
                                                                                                                                                                           .db 0, .db 0, .db 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                     200 pts
300 pts
400 pts
                                                                                                                                                                                                         2, 0
3, 0
4, 0
5, 0
6, 0
7, 0
8, 0
9, 0
0, 0
0x10,
                                                                                                                                                                          .db
  .db
                                                                                                                                                                                             0.
                                                                                                                                                                                                                                                                                                                                                                                                                                      500 pts
                                                                                                                                                                           .db
                                                                                                                                                                                                                                                                                                                                                                                                                                     600 pts
700 pts
                                                                                                                                                                                                                                                                                                                                                                                                                                     800 pts
900 pts
                                                                                                                                                                            .db
                                                                                                                                                                            .db
                                                                                                                                                                                                                                                                                                                                                                                                                                     0 pts
1000 pts
2000 pts
                                                                                                                                                                           .db
                                                                                                                                                                                                                                          0
0
0
0
0
0
0
                                                                                                                                                                           .db
                                                                                                                                                                                             0, 0x20,
0, 0x30,
                                                                                                                                                                            dh
                                                                                                                                                                                                                                                                                                                                                                                                                                      3000 pts
                                                                                                                                                                                                          0x40,
0x40,
0x50,
0x60,
                                                                                                                                                                           .db
                                                                                                                                                                                                                                                                                                                                                                                                                                      4000 pts
5000 pts
                                                                                                                                                                                                                                                                                                                                                                                                                                     6000 pts
7000 pts
8000 pts
9000 pts
                                                                                                                                                                            .db
                                                                                                                                                                                             0, 0x70,
0, 0x80,
0, 0x90,
                                                                                                                                                                            .db
                                                                                                                                                                            .db
                                                                                                                                                                        .db 0, 0x90, 0 ; 9000 pt dw VRAM_start+0x394 ; DATA XI db 1, 0x23, 0x24, 0x10, 0x10, 0, 0, 7, 6, 5, 0, 0x10 db 0x10, 0x21, 0x14, 0x10, 0x10, 0, 0, 5, 9, 5, 0, 0x10
                                                                                       high_score_tbl:
                                                                                                                                                                                                                                                                                                                                                                                                                                     DATA XREF: read dips and high score tbl+53 o
  3567 06 05 00 10+
3585 F4 76
3587 96 77
3589 02 1E 14 10+
3589 01 00 00 06+
3589 01 00 00 10+
3587 F6 76
3589 98 77
3588 03 22 14 10+
3588 00 05 00 10+
3588 09 05 00 10+
3569 F8 76
3568 98 77
35C0 04 24 18 10+
35CD 10 00 00 05+
35CD 10 00 00 05+
35CD 00 05 00 10+
35CB F8 76
                                                                                                                                                                          db 3, 0x22, 0x14, 0x10, 0x10, 0, 0, 5, 9, 5, 0, 0x10
db 0x10, 0x10
                                                                                                                                                                                                                                                                                                                                                                                                                                               0×10
                                                                                                                                                                      dw VRAM_start+0x2F8
dw VRAM_start+0x39A
db 4, 0x24, 0x18, 0x10, 0x10, 0, 0, 5, 0, 5, 0, 0x10
db 0x10, 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, 0, 4, 3, 0, 0, 0x10
db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
db 0x10, 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
; DATA XREF: sub_0_15FA+410
    35EB FA 76
35ED 9C 77
35EF 05 24 18 10+
35EF 10 00 00 04+
35EF 05 24 18 10+
35EF 10 00 00 04+
35EF 03 00 00 10+
360D FC 76
360F 3B 5C 4B 5C+letter_coords:
360F 5B 5C 6B 5C+
360F 7B 5C 8B 5C+
360F 8B 5C AB 5C+
360F 8B 5C AB 5C+
360F 8B 5C AB 5C+
360F 7B 6C 8B 6C+
364D 01 00
364F 98 36
365B 82 36
3655 BF 36
3655 FD 36
3655 FD 36
3656 BB 36
3656 BB 36
3657 06 00
3658 BB 00
3658 BB 00
3659 CC 36
3659 CC 36
3659 CC 37
3667 30 37
3669 47 37
3669 58 37
3669 58 37
3669 59 38 37
3669 50 37
3667 30 37
3667 30 37
3667 30 37
3667 30 37
3667 30 37
3667 30 37
3667 30 37
3667 30 37
3667 30 37
3667 30 37
3667 30 37
3667 30 37
3667 30 37
3673 00 61
                                                                                                                                                                                                                                                                                                                    (DATA XI
0x5C, 0xAB, 0x5C, 0xBB, 0x5C
0x4B, 0x6C, 0x5B, 0x6C, 0x6B
0x6C, 0x9B, 0x6C, 0xAB, 0x6C
0x3B, 0x7C, 0x4B, 0x7C, 0x5B
0x7C, 0x8B, 0x7C, 0x9B, 0x7C
                                                                                                                                                                          .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,
                                                                                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: print message Afo
                                                                                                                                                                            .dw aGAME_OVER .dw 1
                                                                                                                                                                          .dw aPLAYER
.dw aPLAYER_
.dw aHIGH_SCORE
                                                                                                                                                                           .dw aCREDIT
.dw 6
.dw aHOW_HIGH_CAN_YOU_GET
                                                                                                                                                                            .dw
                                                                                                                                                                          .dw aONLY_1_PLAYER_BUTTON
.dw a1_OR_2_PLAYERS
.dw 0xB
                                                                                                                                                                           .dw aPUSH
                                                                                                                                                                          .dw aname_registration
.dw aname
.dw aname
```

dw aA\_B\_C\_D\_E\_F\_G\_H\_I\_J
.dw aK\_L\_M\_N\_O\_P\_O\_R\_S\_T
.dw aU\_V\_W\_X\_Y\_Z\_rub\_end
.dw aREGI\_TIME

.dw high\_score\_tbl\_ram
.dw hs\_tbl\_2nd
.dw hs\_tbl\_3rd

.dw aINSERT\_COIN .dw aPLAYER\_COIN

.dw hs\_tbl\_4th .dw hs\_tbl\_5th .dw arank\_score\_name .dw ayour\_name\_was\_registered

66 61 88 9E 367B 367D 9E 367F B6

D2 3683 E1 37

.db 0xFE, 0xFE, 0xFE, 0xFE, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0 .db 0, 1, 1, 1, 0x7F

38B4 FE FE FE FE+ 38B4 FE FF FF FF+

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
      38CB FF FF FF FF+dk_intro_jump_across_data:.db 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0, 0xFF, 0,
       38CB FF
                                     00 FF 00+
                                                                                                                                                                                                                                                                                                                                                               ; DATA XREF: 0000:0AAF10
; 0000:0B8610
                        00 01 00 01+
01 01 01 01+
                                                               01+ .db 1, 1, 1, 1, 1, 0x7F
10+draw_data_bend_girders_2:.db 4, 0x7F, 0xF0, 0x10, 0xF0, 2, 0xDF, 0xF2, 0x70, 0xF
     38DC 04 7F F0 10+draw_dai

38DC F0 02 DF F2+

38DC 70 F8 02 6F+

38DC 70 F8 02 6F+

38DC F8 10 F8 AA+

38DC 40 DF D0 90+

38DC D0 02 DF DC+
                                                                                                                                                                                                                                                                                                                                                               ; DATA XREF: 0000:0B91†o
                                                                                                                                               .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
    38DC D0 02 DF DC+ .db 0xB0, 0x20, 0xB0, 2, 0xDF, 0xB0, 0x20, 0xBB, 0xAA
38DC D0 02 DF DC+ .db 0xB0, 0x20, 0xB0, 2, 0xDF, 0xB0, 0x20, 0xBB, 0xAA
38DC D0 D1 AA FF+ .db 4, 0xDF, 0x88, 0x30, 0x88, 4, 0xDF, 0x90, 0xB0, 0x90
38DC FF FF FF FFF FF+ .db 2, 0xDF, 0x9A, 0x20, 0x8F, 0xAA, 4, 0xBF, 0x68, 0x20
38DC 04 DF A8 20+ .db 0x68, 4, 0x3F, 0x70, 0x20, 0x70, 2, 0xDF, 0x6E, 0x20
38DC A8 04 5F B0+ .db 0x79, 0xAA
392C 02 DF 58 A0+draw_data_bend_girders_1:.db 2, 0xDF, 0x58, 0xA0, 0x55, 0xAA ; DATA XREF: 0000:0B48\data
3932 02 DF 08 44+dk_throw_barrel_spr:.db 0, 0x70, 8, 0x44, 0x2B, 0xAC, 8, 0x4C, 0x3B, 0xAE
3932 2B AC 08 4C+ ; DATA XREF: 0000:1671\data
3932 3B AE 08 4C+ ; DATA XREF: 0000:1671\data
3932 0xAC 0xAB 0xBC. 7. 0x3C
 3932 3B AE 08 4C+ ...db 8, 0x4C, 0x3B, 0xAF, 8, 0x3C, 0x4B, 0xB0, 7, 0x3C ... 2Cl ... 3BB AE 08 AC+ ... 3BB AC+ ... 3BB AE 08 AC+ ... 3BB AE 08 AC+ ... 3BB AE 08 AC+ ... 3BB 
                                                                                                                                                                                                                                                                                                                                                              FE, 0xFF, 0xFF;

i DATA XREF: sub_0_2E04+98\u00f30;

i sub_0_2E04+C4\u00e700
                                                                                                                                                                                                                                                                                                                                                                 ; SUD_O_ZBOTTOTIO
3, OX7F
, Ox4E, Ox7F
; DATA XREF: Sub_O_2C8F+FD10
; DATA XREF: sub_O_2C8F+F410
; DATA XREF: animate_kong_and_pauline+4310
     39AA 00 01 00 01+ .db 0, 0xFF, 0, 0, 1, 0, 1, 1, 2, 2, 2, 2, 3, 3, 39C3 1E 4E BB 4C+barell_rolling_data:.db 0x1E, 0x4E, 0xBB, 0x4C, 0xDB, 0x4E, 0x59, 39CC BB 4D 7F barrel_falling_data:.db 0xBB, 0x4D, 0x7F ;
      39CF 47 27 08 50 dk_thrash_right_spr:.db 0x47, 0x27, 8, 0x50
       39D3 2D 26 08 50
                                                                                                                                                .db 0x2D, 0x26, 8, 0x50
     39D7 3B 25 08 50
39DB 00 70 08 48
39DF 3B 24 07 40
                                                                                                                                                .db 0x3B, 0x25, 8, 0x50
.db 0, 0x70, 8, 0x48
.db 0x3B, 0x24, 7, 0x40
.db 0x4B, 0x28, 8, 0x40
      39DF 3B 24 07 40
39E3 4B 28 08 40
39E7 00 70 08 48
  39E7 00 70 08 48 .db 0, 0x70, 8, 0x48 39EB 30 29 08 44 .db 0, 0x70, 8, 0x48 39EB 30 29 08 44 .db 0, 0x70, 8, 0x48 39EF 00 70 08 48 .db 0, 0x70, 8, 0x48 39F3 00 70 0A 48 .db 0, 0x70, 0xA, 0x48 39F3 00 70 0A 48 .db 0, 0x70, 0xA, 0x48 39F4 74 60 85 0 dk_thrash_left_spr: db 0x49, 0xA6, 8, 039FB 3E 2F A7 08 50 .db 0x2F, 0xA7, 8, 0x50 39FF 3B 25 08 50 .db 0x3B, 0x25, 8, 0x50 3A03 00 70 08 48 .db 0, 0x70, 8, 0x48 3A07 3B 24 07 40
                                                                                                                                                                                                                                               0×50
                                                                                                                                                                                                                                                                                                                                                        ; DATA XREF: animate_kong_and_pauline+4Afo
; DATA XREF: 0000:1870 o
                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: 0000:17D9\dagger o ; DATA XREF: 0000:17E5\dagger o ; DATA XREF: 0000:17F1\dagger o ; DATA XREF: 0000:17FD\dagger o
                                                                                                                                                                                                                                                           3, 4, 1, 2, 1, 3, 4
                                                                                                                                                                                                                                                                                                                                                                      DATA XREF:
                                                                                                                                                                                                                                                                                                                                                                                                                     0000:095F1
                                                                                                                                                                                                                                                                                                                                                                      DATA XREF: 0000:179910
                                                                                                                                                                                                                                                                                                                                                                       0000:1947†o
    ; DATA XF
3A8C DD DD DC DC+
.db 0xDD, 0xDC, 0xDC, 0xDC, 0xDC, 0xDC, 0xDC, 0xDD, 0xDD
3A8C DC DC DC DC+
.db 0xDE, 0xDF, 0xE0, 0xE1, 0xE2, 0xE3, 0xE4, 0xE5, 0xE7
3A8C DD DD DE DF+
.db 0xE9, 0xEB, 0xED, 0xF0, 0xAA
3AAC 80 7B 78 76+cement_fireball_data:.db 0x80, 0x7B, 0x78, 0x76, 0x74, 0x73, 0x72, 0x71,
3AAC 74 73 72 71+
                                                                                                                                                                                                                                                                                                                                                               ; DATA XREF: sub 0 3478+F1o
     3AAC 74 73 72 71+ ; DATA XREF: Sub_0_3478+F|0
3AAC 70 70 6F 6F+ .db 0x70, 0x6F, 0x6F, 0x6F, 0x70, 0x70, 0x71, 0x72, 0x73
3AAC 6F 70 70 71+ .db 0x74, 0x75, 0x76, 0x77, 0x78, 0xAA
3AC4 EE F0 DB A0+rivet_fireball_data:.db 0xEE, 0xF0, 0xDB, 0xA0, 0xE6, 0xC8, 0xD6, 0x78, 0xEB
3AC4 E6 C8 D6 78+ ; DATA XREF: sub_0_3489+E|0
      3AC4 EB C8 D6 76+
3AC4 EB F0 DB A0+
.db 0xF0, 0xDB, 0xA0, 0xE6, 0xC8, 0xE6, 0xC8
3AC4 EB F0 DB A0+
.db 0xF0, 0xDB, 0xA0, 0xE6, 0xC8, 0xE6, 0xC8
3AC4 EB F0 DB A0+
.db 0xF0, 0xDB, 0xA0, 0xE6, 0xC8
3AC4 EB F0 DB A0+
.db 0xF0, 0xDB, 0xA0, 0xE6, 0xC8
.dc 0xB, 0xC8, 0xC
```

.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, 0xF0, 0x80, 0xF7

0x54, 0x90,

70+cement\_pie\_level\_tilemap\_data:.db 6, 0x8F, 0x90, 0x70, 0x90, 6, 0x8F, 0x98, 0x70, 0x98 98+ ; DATA XREF: 0000:0CDF

.db 6, 0x8F, 0xA0, 0x70, 0xA0, 0, 0x63, 0x18, 0x63, 0x58 db 0, 0x63, 0x80, 0x63, 0x88, 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

0x80,

0x53, 0x18, 0x53, 0x54, 1, 0x53, 0x92, 0x53, 0x58, 0x76, 0x58, 0x92, 0, 0x73, 0x86, 0x73, 0x83, 0x95, 0x83, 0x85, 0, 0x93, 0x38, 0x95, 0x83, 0x85, 0, 0x93, 0x38, 0x93,

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

0xF8. 0.

0x33,

0xCB, 0x57, 0xCB, 0x6F 0, 0xCB, 0x57, 0xCB, 0xCB, 0 1, 0x63, 0xD5, 0x63, 0 0, 0x33, 0xBA, 0x33, 0

0xD2

0xB8

sub 0 2441+201o

3AE4 58 AO 55 02+ 3AE4 EF 6D 20 79+ 3AE4 02 DF 9A 10+ 3AE4 8E 02 EF AF+

3AE4 0E 02 EF AF+ 3AE4 20 BB 02 DF+ 3AE4 DC 10 D0 02+ 3AE4 FF F0 80 F7+

3AE4 02 7F F8 00+ 3AE4 F8 00 CB 57+ 3AE4 CB 6F 00 CB+

3AE4 CB DB CB F3+

3B5D A8 00 63 D0+

3B5D 63 F8 00 53+

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

3AE4 99 CB B1

3AE4 02

3B5D 3B5D 06 90

3B5D 70 .db

.db

.db

.db

.db

.db

db 0xAA

2. 0x7F.

0xCB

0x33,

0xF8. 0.

0x99 0x18, 0x78,

0x58,

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst
                                                                                                                                                                                          11/12/2013, 12:23:46 AM
3B5D 18
                                                                                           .db 0, 0x2B, 0x80,
                                                                                                                                               0x2B,
                                                                                                                                                                0xA8,
                                                                                                                                                                                 0,
                                                                                                                                                                                         0xD3,
                                                                                                                                                                                                         0x80,
                                                                                                                                               0xA3,
0xD3,
0x68,
0x88,
 3B5D
             53 A8 53 D0+
                                                                                           .db 0.
                                                                                                              0xA3.
                                                                                                                              0xA8.
                                                                                                                                                                0xD0.
                                                                                                                                                                                 0.
                                                                                                                                                                                        0x2B.
                                                                                                                                                                                                         0xD0.
                                                                                                                                                                                                                          0x2B.
                                                                                                                                                                                                                                            0xF8
 3B5D 33 A6 33 B6+
3B5D 00 9B 80 9B+
3B5D A8 00 9B D0+
3B5D 9B F8 01 23+
                                                                                           .db
.db
                                                                                                             0xA3,
0xD3,
0x97,
0xF7,
0xA7,
                                                                                                                              0xD0,
0x38,
0x80,
                                                                                                                                                                0xF8,
0x38,
0x80,
                                                                                                                                                                                        0x25,
0x93,
0xEF,
0x77,
0xE7,
                                                                                                                                                                                                         0x38,
0x58,
0x80,
                                                                                                                                                                                                                          0x93,
0x10,
3B5D 8 00 9B D0+ .db 2, 0x97, 0x88, 3B5D 9B F8 01 23+ .db 3, 0xF7, 0x80, 3B5D 9B F8 01 23+ .db 3, 0xF7, 0x80, 3B5D D8 58 DB 58 B 80+ .db 2, 0x37, 0xA8, 3B5D D8 58 DB 80+ .db 2, 0x3F, 0xA8, 3B5D 00 2B 80 2B+ .db 2, 0xFF, 0xF8, 3BFS, 3BFS 00 63 18 63+elevator_level_tilemap_data:.db 0,
                                                                                                                                              0x50, 0xA8, 2, 0xE7, 0xA8, 0xB8,
0x18, 0xA8, 3, 0xEF, 0xD0, 0x10,
0x10, 0xF8, 0xAA
0x63, 0x18, 0x63, 0x58, 0, 0x63,
                                                                                                                                                                                                                          0xB8 0xA8
                                                                                                                                                            . CAO3, 0x58, 0, 0x63, 0x88, 0x63, 0xD0
; DATA XREF: 0000:0CFA†o
; sub_0_2441+27†o

, 0x58, 0, 0x53, 0x88, 0x53, 0xD0
, 0x90, 0, 0x83, 0x58, 0x83, 0xD0
, 0x80, 0, 0x83, 0x58, 0x83, 0x78
0xAO, 0, 0x83, 0x58, 0x83, 0x78
0xC0, 0, 0x1B, 0xC0, 0x1B, 0x88
0xC0, 0, 0x1B, 0xC0, 0x1B, 0x88
0x38, 2, 0xB7, 0x58, 0x10, 0x58
0x68, 2, 0xD7, 0x70, 0xC8, 0x70
0x78, 2, 0xA7, 0x80, 0x90, 0x80
0x88, 2, 0x27, 0x88, 0x10, 0x88
0x90, 2, 0xA7, 0xA0, 0x98, 0xA0
0xA8, 2, 0xD7, 0xB0, 0xC8, 0xF0
0xB8, 2, 0x27, 0xC0, 0x10, 0xC8
0xB8, 2, 0x27, 0xC0, 0x10, 0xC0
0xD0, 2, 0x67, 0xD0, 0x50, 0xD0
0xB8, 2, 0xB7, 0xE0, 0xA8, 0xE0
0xE8, 2, 0xE7, 0xE8, 0x10, 0xE8
0xE8, 0xBA
0, 0x7B, 0xAA
0, 0x7B, 0xAB, 0, 0x7B
                                                                                                                                                                                        0xEF, 0xD0, 0x10, 0xD0
3BE5
             58
                              63 88+
            63 D0 00 53+
18 53 58 00+
53 88 53 D0+
3BE5
                                                                                           .db 0, 0x53, .db 0, 0xE3,
                                                                                                                                               0x53,
0xE3,
3BE5
                                                                                                                              0x68,
3BE5 00 E3 68 E3+
3BE5 90 00 E3 B8+
3BE5 E3 D0 00 CB+
3BE5 90 CB B0 00+
                                                                                           .db 0, .db 0, .db 0, .db 2,
                                                                                                             0xCB,
0x9B,
0x23,
0x97,
                                                                                                                              0x90,
0x80,
0x88,
                                                                                                                                               0xCB,
                                                                                           .db
                                                                                                                                               0x9B,
0x23,
                                                                                                                              0x38.
                                                                                                                                               0x68.
3BE5 90 CB B0 00+
3BE5 B3 58 B3 78+
3BE5 00 9B 80 9B+
3BE5 A0 00 93 38+
                                                                                           .db
.db
                                                                                                              0xer
                                                                                                                               0x68
                                                                                                                                               0xE0
                                                                                                             0xBF,
0x67,
                                                                                                                              0x78,
0x88,
                                                                                                                                               0xB0,
0x48,
3BE5 93
3BE5 88
3BE5 1B
3BE5 02
                                                                                                                              0x90,
0xA8,
0xB8,
0xD0,
                    58 00
                                      23+
                                                                                            .db
                                                                                                              0xEF
                                                                                                                                               0xC8.
                    23 C0 00+
C0 1B E8+
97 38 68+
                                                                                                             0xBF,
0xEF,
0xEF,
                                                                                            .db
                                                                                                                                               0xB0,
0xE0,
3BE5 02 97 38 68+
3BE5 38 02 B7 58+
                                                                                                                                               0xD8,
                                                                                            .db
                                                                                            .db
                                                                                                      2.
                                                                                                              0xCF
                                                                                                                              0xD8
                                                                                                                                               0xC0
            3BE5
3BE5
.db 0, 0x33, 0x58, 0x33, 0x80, 0, db 0, 0xAB, 0x58, 0xAB, 0x80, 0, db 0, 0x2B, 0x80, 0x2B, 0x88, 0, db 0, 0x23, 0x88, 0x23, 0xD0, 0, db 0, 0x23, 0xA8, 0x23, 0xD0, 0, db 0, 0xA3, 0xA8, 0xA3, 0xD0, 0, db 0, 0xA3, 0xA8, 0xA3, 0xD0, 0, db 0, 0xA3, 0xAB, 0xA3, 0xD0, 0xB0, 0x
                                                                                                                                                                                        0x53,
0xCB,
3C8B 00 AB 58
3C8B 80 00 CB
3C8B CB 80 00
3C8B 80 2B A8
                                     AB+
                                                                                                                                                                                         0xD3.
                                                                                                                                                                                                         0x80.
                                                                                                                                                                                                                          0xD3.
                                                                                                                                                                                                                                            0xA8
                                     58+
2B+
                                                                                                                                                                                                         0xA8,
0xA8,
                                                                                                                                                                                          0x5B,
                                                                                                                                                                                                                           0x5B
                                                                                                                                                                                         0xDB,
                                                                                                              0x1B.
                                                                                                                                                                                         0xE3.
                                                                                            .db
                                                                                                                              0xD0.
                                                                                                                                               0x1B.
                                                                                                                                                                 0xF8.
                                                                                                                                                                                 0.
                                                                                                                                                                                                         0xD0.
                                                                                                                                                                                                                          0xE3.
                                                                                                                                                                                                                                            0xF8
3C8B D3 80 D3 A8+
3C8B 00 23 A8 23+
3C8B D0 00 5B A8+
                                                                                                             0xB7, 0x30, 0x48, 0x30, 5, 0xCF, 0x58, 0x30, 0x58

0xD7, 0x80, 0x28, 0x80, 5, 0xDF, 0xA8, 0x20, 0xA8

0xE7, 0xD0, 0x18, 0xD0, 5, 0xEF, 0xF8, 0x10, 0xF8
                                                                                            .db
                                                                                           .db
3C8B D0 00 5B A8+
3C8B 5B D0 00 A3+
3CF0 10 82 85 8B+
3CF0 10 85 80 8B+
3CF0 10 87 85 8B+
                                                                                                      0xAA
                                                                                            .db
                                     ; DATA XI
.db 0x87, 0x85, 0x8B, 0x81, 0x80, 0x80, 0x8B, 0x81, 0x82
.db 0x85, 0x8B, 0x81, 0x85, 0x80, 0x8B
 3D08 05
3D08
                                             title_screen:
                                                                                                                                                                                                                               ; DATA XREF: 0000:07F7<sup>†</sup>o
; RLE-encoded "DONKEY KONG" title
                                                                                          .db
3D09 88 77
                                                                                           .dw VRAM start+0x388
3D0B 01
3D0C 68 77
3D0E 01
3D0F 6C 77
                                                                                            dh '
                                                                                            .dw VRAM_start+0x368
                                                                                            .db
                                                                                            .dw VRAM_start+0x36C
3D11 03
3D12 49 77
3D14 05
                                                                                            .db 3
                                                                                            .dw VRAM_start+0x349
                                                                                           .db
3D14 05
3D15 08 77
3D17 01
3D18 E8 76
3D1A 01
                                                                                            .dw VRAM_start+0x308
                                                                                            .db
                                                                                            .dw VRAM_start+0x2E8
                                                                                            .db
3D1B EC 76
3D1D 05
3D1E C8 76
3D20 05
                                                                                           .dw VRAM_start+0x2EC
.db 5
.dw VRAM_start+0x2C8
                                                                                           .db
3D21 88 76
                                                                                            .dw VRAM_start+0x288
            02
69 76
                                                                                           .db 2
.dw VRAM_start+0x269
3D26 02
3D27 4A
                                                                                            .db
            4A 76
                                                                                            .dw VRAM_start+0x24A
3D27 4A 70
3D29 05
3D2A 28 76
                                                                                            .db
                                                                                            .dw VRAM_start+0x228
3D2C
                                                                                            .db
3D2D E8 75
                                                                                           .dw VRAM_start+0x1E8
.db 1
3D2F 01
3D30 CA 75
                                                                                            .dw VRAM_start+0x1CA
3D32 03
3D33 A9 75
3D35 01
3D36 88 75
                                                                                            .db
                                                                                           .dw VRAM_start+0x1A9
.db 1
                                                                                            .dw VRAM_start+0x188
                                                                                           .dw VRAM_start+0x18C
.dw VRAM_start+0x18C
3D38 01
3D39 8C 75
3D3B 05
             48 75
                                                                                            .dw VRAM start+0x148
 3D3C
3D3E 40 75
3D3E 01
3D3F 28 75
3D41 01
                                                                                            .db
                                                                                            .dw VRAM_start+0x128
                                                                                            .db
3D42 2A 75
                                                                                            .dw VRAM_start+0x12A
3D44 01
3D45 2C 75
3D47 01
3D48 08 75
                                                                                           .db 1
.dw VRAM_start+0x12C
                                                                                            .db \frac{1}{1} .dw VRAM_start+0 \times 108
3D4A 01
3D4B 0A 75
3D4D 01
                                                                                           .db
                                                                                                      VRAM_start+0x10A
                                                                                           .db
3D4E 0C 75
3D50 03
                                                                                           .dw VRAM\_start+0x10C
.db 3
3D50 03
3D51 C8 74
3D53 03
                                                                                            .dw VRAM_start+0xC8
                                                                                            .db
3D54 AA 74
3D56 03
3D57 88 74
                                                                                            .dw VRAM_start+0xAA
                                                                                            .dw VRAM_start+0x88
3D59 05
                                                                                            .db
3D59 05
3D5A 2F 77
3D5C 05
3D5D 0F 77
                                                                                           .dw VRAM_start+0x32F
.db 5
                                                                                            .dw VRAM_start+0x30F
3D5F 02
                                                                                            .db 2
 3D60 F0 76
3D62 02
                                                                                           .dw VRAM_start+0x2F0
.db 2
 3D63 CF 76
                                                                                           .dw VRAM start+0x2CF
3D65 02
                                                                                            .db
3D66 D2 76
3D68 05
3D69 8F 76
                                                                                            .dw VRAM_start+0x2D2
.db 5
                                                                                            .dw VRAM_start+0x28F
 3D6B 05
                                                                                            .db
3D6C 6F 76
3D6E 01
                                                                                                      VRAM_start+0x26F
```

.db

.dw

VRAM\_start+0x24F

3D6F 4F 76

3D71 01

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
                                                                                                                                                    .dw VRAM_start+0x253
 3D74 05
3D75 2F 76
3D77 05
3D78 EF 75
                                                                                                                                                     .db
                                                                                                                                                    .dw VRAM_start+0x22F
                                                                                                                                                      .dw VRAM_start+0x1EF
  3D7A 02
                                                                                                                                                     .db 2
   3D7B D0 75
                                                                                                                                                      .dw VRAM_start+0x1D0
  3D7D 02
3D7E B1 75
                                                                                                                                                    .dw VRAM_start+0x1B1
 3D80 05
3D81 8F 75
3D83 03
3D84 50 75
                                                                                                                                                     .db
                                                                                                                                                    .dw VRAM_start+0x18F
.db 3
                                                                                                                                                     .dw VRAM_start+0x150
 3D86 05
3D87 2F 75
3D89 01
                                                                                                                                                     .db
                                                                                                                                                    .dw VRAM_start+0x12F
.db 1
   3D8A 0F 75
                                                                                                                                                     .dw VRAM start+0x10F
 3D8C 01
3D8D 13
3D8F 01
                                                                                                                                                    .db 1
.dw VRAM_start+0x113
                      13 75
01
                                                                                                                                                     .db
  3D90 EF 74
                                                                                                                                                      .dw VRAM start+0xEF
  3D90 EF 74
3D92 01
3D93 F1 74
3D95 01
                                                                                                                                                      .db
                                                                                                                                                     .dw VRAM_start+0xF1
                                                                                                                                                     .db
  3D96 F3 74
                                                                                                                                                     .dw VRAM_start+0xF3
  3D98 02
3D99 D1 74
                                                                                                                                                    .db 2
.dw VRAM_start+0xD1
 3099 00 .db 0
3090 00 00 23 68+level_init_data:.db 0, 0, 0x23, 0x68, 1, 0x11, 0, 0, 0, 0x10, 0xDB, 0x68
3090 00 10 10 00 00+ .db 1, 0x40, 0, 0, 8, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0
3090 01 40 00 00+ .db 0, 0, 0, 0, 0x80, 1, 0x00, 0xFF, 1, 0xFF, 0xFF, 0x74
3090 01 40 00 00+ .db 0x03, 0x39, 0, 0x67, 0x80, 0x69, 0x1A, 1, 0, 0, 0
                                                                                                                                                                                                                                                                                                                                                 ; DATA XREF: 0000:0F6F<sup>†</sup>0
                                                              00+ ; DATE | DAT
 3D9C 08 01 01 01+
3D9C 01 01 01 01+
3DDC 1E 18 0B 4B+t
3DDC 14 18 0B 4B+
                                                                                                                                                                                                                                                                                                                                                                         3, 0x1E
; DATA XREF: 0000:0FD7<sup>o</sup>
 3DDC 14 10 0B 4B+
3DDC 1E 18 0B 3B+
3DEC 3D 01 03 02 :
3DEC
                      1E 18 0B 3B+ .db 0x18, 0x8, 0x3B, 0x14, 0x18, 0x8, 0x3B
3D 01 03 02 fireball_spr: .db 0x3D, 1, 3, 2
                                                                                                                                                                                                                                                                                                                                                                                DATA XREF: 0000:0FE2↑0
0000:101F↑0 ...
DATA XREF: 0000:1131↑0
DATA XREF: 0000:0FEF↑0
DATA XREF: 0000:1049↑0
DATA XREF: 0000:0FF5↑0
JDEC

JDEO

                                                                                                                                                                                                                                                                                                                                                                                 DATA XREF: 0000:104F10
                                                                                                                                                                                                                                                                                                                                                                                  DATA XREF: init_hammer_sprites+9\(^1\)o
DATA XREF: 0000:1000\(^1\)o
                                                                                                                                                                                                                                                                                                                                                                                 DATA XREF: 0000:1070 o DATA XREF: 0000:1130 o
                                                                                                                                                                                                                                                                                                                                                                                DATA XREF: 0000:113D|0
DATA XREF: 0000:102E|0
DATA XREF: 0000:105A|0
0x8C, 0x50
                                                                                                                                                                                                                                                                                                                                                                                  DATA XREF: 0000:1065 o
 3E24 E7 D0 00 5C+ ; DATA XREF: 0000:1065[o 3E24 E7 D0 00 84+ ..db 0, 0x84, 0x73, 0xD0, 0, 0x84, 0x17, 0x50, 0, 0xD4 3E24 73 D0 00 84+ ..db 0xE7, 0xD0, 0, 0xD4 3E3C 53 73 0x A0+cement_obj_spr: .db 0x53, 0x73, 0xA, 0xA0, 0x8B, 0x74, 0xA, 0xF0, 0xDB 3E3C 8B 74 0x F0+ ; DATA XREF: 0000:1076[o 3E3C DB 75 0A A0 ..db 0x75, 0xA, 0xA0 3E48 5B 73 0x C8+elevator_obj_spr:.db 0x5B, 0x73, 0xA, 0xC8, 0xE3, 0x74, 0xA, 0x60, 0x1B 3E48 E3 73 74 0x 60+
 3E48 E3 74 0A 60+
3E48 1B 75 0A 80
3E54 DB 73 0A C8+:
3E54 93 74 0A F0+
                                                                                                                                                                                                                                                                                                                                                                         ; DATA XREF: 0000:10DETo
                                                              3E70
                                                                          loc_0_3E70:
                                                                                                                                                                                                                                                                                                                                                                         ; CODE XREF: sub 0 1DBD+1A j
3E70
3E70 11 01 00
3E73
3E73
3E73 06 7B
3E75 1F
                                                                                                                                                 ld
                                                                                                                                                                                     de, #1
                                                                          loc_0_3E73:
                                                                                                                                                                                     b, #0x7B ; '{'
                                                                                                                                                   1d
                                                                                                                                                    rra
 3E76 D2 28 1E
3E79 1E 03
                                                                                                                                                                                       NC, loc_0_1E28
                                                                                                                                                    jp
ld
                                                                                                                                                                                      b, #0x7D; '}'
 3E7B 06 7D
3E7D 1F
                                                                                                                                                    ld
 3E7D 00 7D
3E7D 1F
3E7E D2 28 1E
                                                                                                                                                                                       NC, loc_0_1E28
                                                                                                                                                    jp
ld
 3E81 1E 05
3E83 06 7F
3E85 C3 28 1E
3E88
                                                                                                                                                                                       e, #5
b, #0x7F; ''
                                                                                                                                                    1d
                                                                                                                                                   jp
                                                                                                                                                                                       loc_0_1E28
                                                                                                                                                SUBROUTINE
 3E88
  3E88
3E88
 3E88
3E88 3<u>A</u> 27 62
                                                                            sub 0 3E88:
                                                                                                                                                                                                                                                                                                                                                                         ; CODE XREF: sub 0 2853+18 p
                                                                                                                                                                                     a, (level_type)
hl
                                                                                                                                                   ld
 3E8B E5
3E8C EF
3E8C
                                                                                                                                                    push
                                                                                                                                                                                        0x28
                                                                                                                                                    rst
 3E8D 00 00
                                                                                                                                                                                                                                                                                                                                                                         ; Jump table
 3E8F 99 3E
3E91 B0 28
3E93 E0 28
                                                                                                                                                    .dw loc_0_3E99
.dw l2_check_ha
                                                                                                                                                     .dw 12_check_hammer_hit
.dw 13_check_hammer_hit
 3E95 E0 20
3E95 01 29
3E97 00 00
3E99
                                                                                                                                                       .dw 14_check_hammer_hit
3E99 3E99 E1 3E9A AF 3E9B 32 60 60 3E9E 06 0A 3EA0 11 20 00 3EAA DD 21 00 67 3EAA 06 05 3EAC DD 21 00 64 3EB0 CD C3 3E 3EBA 3EAC AF 3EBA AF 3E
  3E99
                                                                           loc_0_3E99:
                                                                                                                                                                                                                                                                                                                                                                         ; DATA XREF: sub_0_3E88+71o
                                                                                                                                                   pop
                                                                                                                                                    xor
                                                                                                                                                                                       a
(unk_0_6060), a
                                                                                                                                                    ld
                                                                                                                                                    ld
ld
                                                                                                                                                                                       b, #0xA
de, #0x20;
                                                                                                                                                                                      ix, #unk_0_6700
sub_0_3EC3
                                                                                                                                                    ld
                                                                                                                                                    call
ld
ld
                                                                                                                                                                                     b, #5
ix, #unk_0_6400
                                                                                                                                                                                                                                                                                                                                                                 ; fireball character data
                                                                                                                                                    call
                                                                                                                                                                                       sub 0 3EC3
                                                                                                                                                    ld
and
                                                                                                                                                                                        a, (unk_0_6060)
```

ret

#1

3EB8 FE 01

3EBA C8

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 11/12/2013, 12:23:46 AM
 3EBB FE 03
                                                                                  cp
ld
                                                                                                     a, #3
C
  3EBD
             3E 03
 3EBF D8
3EC0 3E 07
3EC2 C9
                                                                                 ret
ld
ret
                                                                                                     a, #7
                                          ; End of function sub_0_3E88
 3EC2
3EC2
 3EC3
3EC3
                                                    SUBROUTINE
 3EC3
3EC3
3EC3 DD CB 00 46
                                                                                                                                                                                                        ; CODE XREF: sub_0_3E88+1F\p
; sub_0_3E88+28\p ...
                                          sub_0_3EC3:
 3EC3
3EC7 CA FA 3E
3ECA 79
                                                                                 bit
                                                                                                     0, 0(ix)
Z, loc_0_3EFA
                                                                                  jp
ld
  3ECA 79
3ECB DD 96 05
                                                                                                     a, c
5(ix)
                                                                                  sub
 3ECE DD 90 03
3ECE D2 D3 3E
3ED1 ED 44
3ED3
                                                                                  jp
neg
                                                                                                     NC, loc_0_3ED3
 3ED3
3ED3
3ED3 3C
3ED4 95
3ED5 DA DE 3E
3ED8 DD 96 0A
3EDB D2 FA 3E
3EDE
                                          loc 0 3ED3:
                                                                                                                                                                                                       ; CODE XREF: sub 0 3EC3+B1i
                                                                                  sub
                                                                                                           loc_0_3EDE
                                                                                  qŗ
                                                                                  sub
                                                                                                      0xA(ix)
                                                                                                     NC, loc_0_3EFA
                                                                                  jp
                                                                                                                                                                                                       ; CODE XREF: sub 0 3EC3+12<sup>†</sup> †
  3EDE
                                          loc 0 3EDE:
 3EDE FD 7E 03
3EE1 DD 96 03
3EE4 D2 E9 3E
3EE7 ED 44
                                                                                                     a, 3(iy)
3(ix)
NC, loc_0_3EE9
                                                                                  14
                                                                                  sub
                                                                                  qį
                                                                                  neg
 3EE7 ED 44
3EE9
3EE9
3EE9
3EE9 94
3EEA DA F3 3E
3EED DD 96 09
3EF0 D2 FA 3E
3EF3
                                           loc_0_3EE9:
                                                                                                                                                                                                        ; CODE XREF: sub_0_3EC3+21 j
                                                                                  sub
                                                                                                     C, loc_0_3EF3
9(ix)
                                                                                  αĖ
                                                                                   sub
                                                                                  jp
                                                                                                     NC, loc_0_3EFA
 3EF3
3EF3 3A 60 60
3EF6 3C
3EF7 32 60 60
                                                                                                                                                                                                        ; CODE XREF: sub 0 3EC3+271i
                                          loc 0 3EF3:
                                                                                  1d
                                                                                                     a, (unk_0_6060)
                                                                                                     (unk_0_6060), a
                                                                                  ld
 3EFA
 3EFA
3EFA DD 19
                                                                                                                                                                                                        ; CODE XREF: sub_0_3EC3+4<sup>†</sup>j
; sub_0_3EC3+18<sup>†</sup>j ...
                                           loc_0_3EFA:
 3EFA
3EFC 10 C5
3EFE C9
3EFE
                                                                                  add
                                                                                                      ix, de
                                                                                 djnz
ret
                                                                                                     sub 0 3EC3
                                           ; End of function sub_0_3EC3
JEFE 7 End of full series 7 En
 3EFE
                                          aCOPYRIGHT_1981:.dw VRAM_start+0x25C
                                                                                                                                                                                                        ; DATA XREF: 0000:3687\u00e90
                                          .db 0x1F, 0x16, 0x10, 0x11, 0x1D, 0x15, 0x22, 0x19, 0x13
.db 0x11, 0x10, 0x19, 0x1E, 0x13, 0x2B, 0x3F
                                                                              SUBROUTINE
                                                                                                                                                                                                        ; CODE XREF: 0000:081C1p
                                           display_tm:
                                                                                  ld
                                                                                                     hl, #VRAM_start+0xAF
                                                                                                     de, #0xFFE0
(hl), #0x9F; 'f'
hl, de
(hl), #0x9E; 'x'
                                                                                  14
                                                                                  ld
                                                                                  add
            36 9E
  3F2D
                                                                                  ld
 3F2F C9
3F2F
3F2F
                                           ; End of function display_tm
 3F2F ;

3F30 50 52 4F 47+aProgramWeWouldTeachYou_Tel_toky:.ascii 'PROGRAM, WE WOULD TEACH YOU.****TEL.TOKYO-JAPAN 044(244)'
3F30 52 41 4D 2C+ .ascii '2151 EXTENTION 304 SYSTEM DESIGN IKEGAMI CO. LIM.'
  3FA0
 3FA0
3FA0
3FA0 CD A6 3F
3FA3 C3 5F 0D
3FA6
3FA6
3FA6
                                                                                                                                                                                                        ; CODE XREF: 0000:0CD1<sup>†</sup>j
                                                                                                    fix_retractable_ladders
                                                                                 call
                                                                                 jр
                                                                                                     init_level_data_tmrs_spr_cont
                                                                                  SUBROUTINE
 3FA6
 3FA6
3FA6 3E 02
3FA8 F7
3FA9 06 02
3FAB 21 6C 77
3FAE
3FAE
                                                                                                                                                                                                        ; CODE XREF: 0000:3FAO1p
; ladders for cement pie level
; return if level bit not set
                                           fix_retractable_ladders:
                                                                                  ld
                                                                                                    a, #:
0x30
                                                                                  rst
ld
                                                                                                     b, #2
                                                                                  ld
                                                                                                     hl, #VRAM_start+0x36C
                                           loc_0_3FAE:
                                                                                                                                                                                                       ; CODE XREF: fix_retractable_ladders+11|j
 3FAE 36 10 3FB0 23 3FB1 23 3FB2 36 C0 3FB4 21 8C 74 3FB7 10 F5 3FB9 C9
                                                                                  1d
                                                                                                     (hl), #0x10
                                                                                  inc
inc
ld
                                                                                                     hl
hl
                                                                                                     (h1), #0xC0; 'L'
h1, #VRAM_start+0x8C
                                                                                  1d
                                                                                  djnz
                                                                                                      loc_0_3FAE
                                           ret
; End of function fix_retractable_ladders
  3FB9
 3FB9
3FB9
3FBA 00 00 00 00+
                                                                                 .db 0, 0, 0, 0, 0, 0
SUBROUTINE
                                          sub 0 3FC0:
                                                                                                                                                                                                      ; CODE XREF: 0000:22851p
                                                                                 ld
ld
                                                                                                    hl, #soft_sprite_ram+0x4D
(hl), #3
```

inc ret ; End of function sub\_0\_3FC0

```
.db 0, 0, 0x41, 0x7F, 0x7F, 0x41, 0, 0, 0,
                                                                                                                                                                         0x7F, 0x7F
3FC8 00 00 41 /F+
3FC8 00 00 43 /F+
3FC8 00 7F 7F 18+
3FC8 00 07 F 7F 18+
3FC8 00 00 7F 7F+
3FC8 49 49 49 41+
3FC8 49 49 49 41+
3FC8 00 10 3F 63+; end of 'ROM'
3FC8 41 49 79 79+
                                                                         db 0x18, 0x3c, 0x7f, 0x7f, 0x8f, 0x41, 0, 0, 0x7F, 0x7f, 0x7f, 0db 0x18, 0x3c, 0x76, 0x63, 0x41, 0, 0, 0x7F, 0x7f, 0.db 0x49, 0x49, 0x41, 0, 0x1C, 0x3E, 0x63, 0x41, 0x49, 0db 0x79, 0x79, 0, 0x7C, 0x7E, 0x13, 0x11, 0x13, 0x7E, 0db 0x7C, 0, 0x7F, 0x7F, 0x6E, 0x1C, 0xE, 0x7F, 0x7F, 0db 0, 0x41, 0x7F, 0x7F, 0x41, 0, 0
3FC8
6000
6000
6000
6000
6000
                                     ; Segment type: Regular
; segment 'RAM'
                                                                          .org 0x6000
6000 ??
6001 ??
6001
6002 ??
                                     RAM start:
                                                                         .ds 1
                                                                                                                                                                                    ; DATA XREF: 0000:0268\u00e90
; DATA XREF: display_credits+5\u00e90
                                     no_of_credits:
                                                                                                                                                                                        0000:073F1r ...
                                                                          .ds 1
6002 ??
6003 ??
6004 ??
6005 ??
6005 ??
6007 ??
6008 ??
6009*??
                                     coin_state:
                                                                          .ds
                                                                                                                                                                                    ; DATA XREF: check_coin_inserted+5\uparrowo
                                                                          .ds
                                                                                                                                                                                    ; DATA XREF: 0000:00C6 r ; check_coin_inserted+12 r ...
                                     nmi_sequencer: .ds
                                    .ds 1
attract_mode_flag:.ds 1
sixteen_bit_countdown_msb:.ds 1
eight_bit_countdown:.ds 1
                                                                                                                                                                                    ; DATA XREF: return_NOT_16bit_timeout\u00f10 ; DATA XREF: return_NOT_8bit_timeout\u00e10
6009*??
6009*
600A ??
600B ??
600C ??
600D ??
                                                                                                                                                                                       0000:078E o ...
DATA XREF: 0000:01EE w
                                     main_sequencer: .ds 1
                                                                                                                                                                                    ; 0000:06FE1r ...
                                     .us 1
.ds 1
current_player_D: .ds 1
current_player_E: .ds 1
600F ??
6010 ??
6010
6011 ??
                                     two_players: .ds 1 controller_in: .ds 1
                                                                                                                                                                                    ; DATA XREF: 0000:00AC↑w; 0000:1502↑r ...
                                     last raw in:
                                                                          .ds 1
6011 ??
6012 ??
6013 ??
6014 ??
6015 ??
6016 ??
6017 ??
6018 ?? ??
                                                                          .ds
                                                                          .ds
                                                                          .ds
                                                                          .ds
                                                                          .ds 1 .ds 2
                                                                                                                                                                                    ; DATA XREF: rand↑r
                                     random no:
6018
601A ??
601A
                                                                                                                                                                                    ; rand+B<sup>†</sup>w ...; DATA XREF: rand+3<sup>†</sup>o; 0000:00B5<sup>†</sup>o ...
                                     gen_purpose_timer:.ds 1
601A
601B ??
601C ??
601D ??
601E ??
                                                                          .ds 1
                                                                          ds
                                                                          .ds
                                                                          .ds
                                                                          .ds
6020 ??
6020
6021 ??
                                     lives_per_game:
                                                                                                                                                                                       DATA XREF: read_dips_and_high_score_tbl+4\u00e10 o
                                                                                                                                                                                        0000:0922\fr ...
DATA XREF: check_and_award_bonus+1E\frac{1}{0}
                                                                       .ds 1
                                     bonus_setting:
                                                                                                                                                                                         7/10/15/20K
6021
                                                                                                                                                                                       //10/15/20K
DATA XREF: check_coin_inserted+27\dagger
DATA XREF: 0000:0087\dagger
0000:099F\dagger ...
6022 ?? ?? ?? ?? coinage:
6026 ?? upright:
6026
                                                                          ds 4
                                                                         .ds 1
6026
6027 ??
6028 ??
6029 ??
602A ??
602B ??
602C ??
602D ??
                                                                          .ds 1
                                                                          .ds
                                                                          .ds
                                                                          .ds
                                                                          .ds
602D ??
602E ??
602F ??
6030 ??
6031 ??
6032 ??
6033 ??
6034 ??
                                                                          .ds
                                                                          dя
                                                                                                                                                                                    ; DATA XREF: 0000:1499†o
; 0000:14FC†o
                                     unk_0_6030:
                                     unk_0_6031:
unk_0_6032:
                                                                          .ds 1
                                                                          .ds 1
                                                                                                                                                                                    ; DATA XREF: 0000:158A\u00e10
; 0000:15B2\u00e1w
                                                                          .ds
6034
6035
6036
6037
          ??
                                     unk_0_6034:
unk_0_6035:
unk_0_6036:
                                                                                                                                                                                    ; DATA XREF: 0000:14DC10
                                                                          .ds
                                                                          .ds
                                                                          .ds
6037 ??
6038 ??
6039 ??
603A ??
603B ??
603D ??
603E ??
6040 ??
                                                                          .ds
.ds
.ds
                                     unk_0_6038:
                                     unk_0_603A:
                                                                          .ds
                                                                          .ds
                                                                          .ds
                                                                          .ds
603F ??
6040 ??
6040
6041 ??
6042 ?? ??
6044 ??
6045 ??
                                     p1_level_data:
                                                                                                                                                                                    ; DATA XREF: 0000:093E<sup>†</sup>o; 0000:09AB<sup>†</sup>o ...
                                                                                                                                                                                    ; 0000:09AB[o ... ; game init data copied here
                                                                          .ds 1
                                                                          .ds 2 .ds 1 .ds 1
                                                                                                                                                                                    ; ptr sequence data
6046 ??
6047 ??
6048 ??
6048
                                                                          .ds
                                                                           .ds
                                                                                                                                                                                    ; DATA XREF: 0000:0909†o; 0000:091F†o ...
                                     p2_level_data:
                                                                         .ds
                                                                          .ds
.ds
.ds
6049 ??
604A ??
604A ??
604C ??
604C ??
604E ??
6051 ??
6052 ??
6053 ??
6055 ??
6055 ??
                                                                          .ds
                                                                          .ds
.ds
.ds
.ds
                                                                          .ds
.ds
.ds
.ds
.ds
6055
6056
6057
6057 ??
6058 ??
6059 ??
605A ??
                                                                          .ds
.ds
.ds
605B
                                                                          .ds
605C ??
```

```
605D ??
605E ??
605F ??
6060 ??
6061 ??
6063 ??
6064 ??
6065 ??
6066 ??
6067 ??
6068 ??
                                                                                                        .ds
                                                                                                         .ds
                                                                                                        .ds
.ds
.ds
                                                     unk_0_6060:
                                                                                                        .ds
.ds
.ds
.ds
.ds
.ds
  606A
606B
606C
606D
                5.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.5<l
                                                                                                        606D
606E
606F
6070
6071
6072
6073
6074
 6076
6077
6078
  6079
607A
607B
607C
 607D ??
607E ??
607F ??
6080 ??
                                                                                                         .ds
.ds
.ds
                                                    digital snd tmr walk:.ds 1
                                                                                                                                                                                                                                                           ; DATA XREF: update sounds o
 6080 ??
6080 6081 ??
6082 ??
6082 6083 ??
6084 ??
6085 ??
                                                                                                                                                                                                                                                           / Bata Alber : dpate = sounds|0
stop sound+6|0 ...
pata XREF: sub_0_laC3+E9|0
pata XREF: animate_kong_and_pauline+52|w
0000:0B45|w ...
                                                     digital_snd_tmr_jump:.ds 1
digital_snd_tmr_thump:.ds 1
                                                     digital_snd_tmr_coin_spring:.ds 1
digital_snd_tmr_kong_fall:.ds 1
                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_1DBD+25\u00f30 o ; sub_0_1DBD+87\u00e70 \dots.
                                                     digital_snd_tmr_barrel_jump_priz:.ds 1
  6085
 6086 ??
6087 ??
6088 ??
                                                    digital_snd_tmr_6:.ds 1
digital_snd_tmr_7:.ds 1
music_something:.ds 1
                                                                                                                                                                                                                                                               DATA XREF: update_sounds+2E100000:12A81w
  6088
                                                                                                                                                                                                                                                                DATA XREF: 0000:067A w
0000:0CCO w ...
DATA XREF: 0000:0ADB o
  6089 ??
6089
                                                    bg_music:
  608A ??
                                                    unk_0_608A:
                                                                                                      .ds 1
  608A
608B
608C
                                                                                                                                                                                                                                                                0000:0BB31o ...
DATA XREF: update_sounds+1A1o
                ??
                                                     unk_0_608B:
                                                                                                       .ds
  608D ??
608E ??
608F ??
6090 ??
                                                                                                        .ds
                                                                                                       .ds
.ds
.ds
  6091
6092
6093
6094
                6095
  6096
6097
6098
  6099
  609A
609B
  609C
609D
609E
609F
  60A0
60A1
60A2
60A3
 60A3
60A4
60A5
60A6
60A7
60A8
60A9
                                                                                                        .ds
.ds
.ds
.ds
.ds
.ds
  60AB
  60AC
60AD
60AE
60AF
                                                                                                         .ds
 60AD ??
60AE ??
60AF ??
60BO ??
60B1 ??
60B2 ?? ?? ??
                                                                                                         .ds
                                                                                                         .ds
                                                      fg_fn_queue_tail:.ds
                                                    fg_fn_queue_head:
p1_score:
                                                                                                                                                                                                                                                           ; DATA XREF: 0000:01C9\o
                                                                                                       .ds 3
                                                                                                                                                                                                                                                                Current_player_score_DE\0 ...
DATA XRFF: current_player_score_DE+8\0\00e40
zero_score_or_high_score+D\0\00e40
DATA XREF: add_bonus_and_update_high_score+37\0\00e40
  60B2
  60B5 ?? ?? ??
60B5
60B8 ?? ?? ??
                                                     p2_score:
                                                                                                       .ds 3
                                                    high score:
                                                                                                       .ds 3
6088 ?? ?? ?? high_score: .ds 3
6088 ?? .ds 1
608C ?? .ds 1
608D ?? .ds 1
608F ?? .ds 1
600C ?? ?? ?? ??+fg_vector_fn_params:.ds 0x40
60C0 ?? ?? ?? ??+high_score_tbl_ram:.ds 0x22
6100 ?? ?? ?? ??+high_score_tbl_ram:.ds 0x22
6100 ?? ?? ?? ??+high_score_tbl_ram:.ds 0x22
6100 ?? ?? ?? ?? ??+hs_tbl_2nd: .ds 0x22
6122 ?? ?? ?? ?? ??+hs_tbl_3rd: .ds 0x22
6122 ?? ?? ?? ?? ??+hs_tbl_4th: .ds 0x22
6144 ?? ?? ?? ?? ??+hs_tbl_4th: .ds 0x22
6166 ?? ?? ?? ?? ??+hs_tbl_5th: .ds 0x22
6188 ?? ?? ?? ?? ??+hs_tbl_5th: .ds 0x22
6188 ?? ?? ?? ?? ?? .ds 1
  60B8
                                                                                                                                                                                                                                                                zero_score_or_high_score+15\fo .
                                                                                                                                                                                                                                                                DATA XREF: 0000:0291 o
                                                                                                                                                                                                                                                                DATA XREF: 0000.025110
queue_fg_vector_fn+1\0
DATA XREF: read_dips_and_high_score_tbl+56\0
0000:3673\0
                                                                                                                                                                                                                                                                DATA XREF: 0000:367510
                                                                                                                                                                                                                                                                2nd
DATA XREF: 0000:367710
                                                                                                                                                                                                                                                                 3rd
                                                                                                                                                                                                                                                                DATA XREF: 0000:36791o
                                                                                                                                                                                                                                                                4th
DATA XREF: 0000:3678†o
                                                                                                                                                                                                                                                                5th
```

unk\_0\_61B1:

unk\_0\_61C6: unk\_0\_61C7:

.ds .ds .ds

.ds

.ds

.ds

.ds

.ds 1

.ds 1

.ds 1

.ds 1

.ds .ds

mario\_alive\_flag:.ds

mario\_x\_coord: .ds 1

mario\_flipx\_colour:.ds 1 unk\_0\_6209: .ds 1

mario\_x\_before\_jump:.ds 1
mario\_y\_before\_jump:.ds 1

unk\_0\_6206: .ds 1 mario\_flipy\_sprite\_tile:.ds 1

unk 0 6202:

unk\_0\_6204:

unk\_0\_620E: unk\_0\_620F:

unk\_0\_6210:

unk\_0\_6211: unk\_0\_6212: unk\_0\_6213:

unk\_0\_6214: .ds mario\_climbing: .ds

6207 ??
6207
6208 ??
6209 ??
6209
620A ??
620B ??
620C ??
620E ??
620E ??
620F
620F

620F 6210 ??

6210 6211 ?? 6212 ?? 6213 ?? 6214 ?? 6215 ??

mario\_y\_coord:

```
; DATA XREF: return_if_mario_not_alive|r
; 0000:0BE3|r ...
; DATA XREF: animate_kong_and_pauline+D6fr
; animate_kong_and_pauline+10Efr ...
; DATA XREF: sub_0_19DA+13 r; sub_0_1A33+22 r ...
; DATA XREF: sub_0_1AC3+54\daggero
; sub_0_1AC3+9D↑o ...
; DATA XREF: 0000:0FA5\uparrowo ; init to 4 ; init to 8
   DATA XREF: sub_0_1AC3+E6<sup>†</sup>w sub_0_1AC3+1B6<sup>†</sup>o ...
DATA XREF: sub_0_1AC3+1CE<sup>†</sup>r sub_0_1AC3+1EA<sup>†</sup>r ...
    mario_???
DATA XREF: sub_0_1AC3+B0↑o
; sub 0 1F46+F<sup>†</sup>w ...
```

; DATA XREF: sub\_0\_13CA+D o

; DATA XREF: sub\_0\_13CA\u00e7o ; DATA XREF: sub\_0\_13CA+2F\u00e7o

```
6216 ??
6217 ??
6218 ??
6219 ??
621A ??
                                     mario_jumping:
unk_0_6217:
unk_0_6218:
unk_0_6219:
unk_0_621A:
                                                                           .ds
                                                                            .ds
                                                                           .ds
.ds
.ds
                                                                                                                                                                                        ; DATA XREF: sub_0_1AC3+5D\capprox o ; sub_0_1AC3+2B3\capprox r ...
621A
621B ??
621C ??
621C
                                                                            .ds
                                                                                                                                                                                        ; DATA XREF: sub_0_1AC3+262\daggero ; sub_0_1AC3+2BD\dagger r
                                      unk_0_621C:
621C
621D ??
621E ??
621E
621F ??
                                                                           .ds 1
                                                                                                                                                                                        ; DATA XREF: sub_0_1AC3+7 r; sub_0_1AC3+92 o ...
                                     unk_0_621E:
                                      unk_0_621F:
                                                                           .ds
6220
6221
6222
6223
                                     unk_0_6220:
unk_0_6221:
unk_0_6222:
                                                                           .ds
.ds
          ??
??
??
??
??
6223 ??
6224 ??
6225 ??
6226 ??
6227 ??
6228 ??
6229 ??
6220 ??
6220 ??
6220 ??
6220 ??
6220 ??
6220 ??
                                                                            .ds
                                     unk_0_6224:
unk_0_6225:
                                                                           .ds
.ds
.ds
                                                                                                                                                                                         ; DATA XREF: sub_0_30+14\u00e90
                                     level_type:
                                                                            .ds 1
                                                                                                                                                                                           DATA XREF: SUD_U_SU+14|0
0000:01ERA[w ...

DATA XREF: 0000:01D9]w
check_and_award_bonus+28|0 ...
DATA XREF: 0000:01D6]w
difficulty_timer_tick+15|r ...
keeps incrementing
                                      lives_left:
                                                                           .ds 1
                                      level:
                                                                           .ds 1
                                      seq_data:
unk_0_622C:
                                                                           .ds 2
                                                                                                                                                                                        ; DATA XREF: 0000:0A6E<sup>†</sup>o; 0000:12F6<sup>†</sup>w ...
                                      awarded_bonus_life:.ds 1 unk_0_622E: .ds 1
                                                                                                                                                                                        ; DATA XREF: 0000:0C05†r; 0000:0C0E†w ...
unk_0_622F:
                                                                            .ds
                                                                           .ds
                                                                           627A
627B
627C
           ??
627D
627E
627F
                                                                            .ds
                                                                            .ds
                                      unk 0 6280:
                                                                                                                                                                                        ; DATA XREF: 0000:0F64\u00e10
; 0000:0F72\u00e10 ...
                                                                            .ds
6280
```

```
6281 ??
6282 ??
6283 ??
6284 ??
6285 ??
6286 ??
6288 ??
6288 ??
6288 ??
628B ??
628B ??
628B ??
628E ??
628E ??
628F ??
6290 ??
                                                                                                                                                                                                                                    .ds 1
                                                                                                                                                                                                                                      .ds
                                                                                                                                                                                                                                    .ds
.ds
.ds
.ds
.ds
                                                                                                                   unk_0_6288:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; DATA XREF: sub_0_2207+E↑o
                                                                                                                                                                                                                                   .ds
.ds
.ds
                                                                                                                                                                                                                                   .ds
.ds
.ds
                                                                                                                   unk_0_6290:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; DATA XREF: sub_0_1A33+53<sup>o</sup>; sub_0_1E57+29<sup>r</sup>
                                                                                                                   unk_0_6291:
unk_0_6292:
6291 ??
6292 ??
6293 ??
6294 ??
6295 ??
6296 ??
6297 ??
6299 ??
6298 ??
6290 ??
6290 ??
6290 ??
6290 ??
6200 ??
6200 ??
6200 ??
6200 ??
6200 ??
6200 ??
6200 ??
6200 ??
6200 ??
6200 ??
6200 ??
6200 ??
6200 ??
6200 ??
6200 ??
6200 ??
6200 ??
                                                                                                                                                                                                                                   .ds
.ds
.ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; DATA XREF: sub_0_1A33+48 o
                                                                                                                                                                                                                                    .ds
.ds
.ds
.ds
.ds
.ds
.ds
                                                                                                                   unk_0_62A0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; DATA XREF: 0000:16BC\u00fc\u0000:16D2\u00fc\u0000:16D2\u000c\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u00
                                                                                                                                                                                                                                    .ds
                                                                                                                   unk_0_62A1:
                                                                                                                                                                                                                                   .ds
                                                                                                                                                                                                                                      .ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_2523+2Efr
                                                                                                                   unk_0_62A3:
                                                                                                                                                                                                                                    .ds
                                                                                                                                                                                                                                                            1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sub_0_262F†o ...
                                                                                                                                                                                                                                   .ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; DATA XREF: sub_0_2679+7\partial o
; DATA XREF: sub_0_2523+39\partial r
; sub_0_2679+14\partial o
; DATA XREF: sub_0_27DA\partial o
                                                                                                                   unk_0_62A5:
unk_0_62A6:
                                                                                                                                                                                                                                    .ds
                                                                                                                                                                                                                                    .ds
                                                                                                                   unk_0_62A7:
unk_0_62A8:
                                                                                                                                                                                                                                   .ds
                                                                                                                                                                                                                                   .ds
                                                                                                                   unk_0_62AA:
                                                                                                                                                                                                                                    .ds
                                                                                                                 unk_0_62AC:
                                                                                                                                                                                                                                      .ds
                                                                                                                                                                                                                                    .ds
.ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DATA XREF: 0000:0AA6<sup>†</sup>w
                                                                                                                   unk_0_62AF:
                                                                                                                                                                                                                                   .ds
                                                                                                                                                                                                                                                            1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0000:0AEB|r ...
DATA XREF: 0000:063A|r
0000:0F8E|o ...
                                                                                                                   unk_0_62B0:
                                                                                                                                                                                                                                 .ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; DATA XREF: UUUU:063A|r; 0000:058B|o ...; level timer #1; DATA XREF: sub_0_2C03+9|r; sub_0_2C8F+4B|o ...; level timer #2; level timer #3; level timer #4; DATA XREF: sub_0_2FCB+3|o; level timer #5
 62B0
62B1 ??
62B1
62B1
                                                                                                                   unk_0_62B1:
                                                                                                                                                                                                                                   .ds 1
 62B2 ??
62B3 ??
62B4 ??
62B4
                                                                                                                    unk_0_62B2:
unk_0_62B3:
unk_0_62B4:
                                                                                                                                                                                                                                   .ds 1 .ds 1 .ds 1
 62B5 ??
                                                                                                                                                                                                                                    .ds
62B5 ??
62B6 ??
62B7 ??
62B8 ??
62B9 ??
62BA ??
                                                                                                                                                                                                                                   .ds
                                                                                                                    unk_0_62B8:
unk 0 62B9:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; DATA XREF: sub_0_3A2+9↑o
                                                                                                                                                                                                                                    .ds
                                                                                                                                                                                                                                      dя
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; DATA XREF: sub_0_3A2+2F\daggero o ; sub_0_3A2+3E\daggero w
                                                                                                                    unk_0_62BA:
                                                                                                                                                                                                                                   .ds
62BB ??
62BC ??
62BE ??
62BE ??
62BE ??
62BE ??
62BE ??
62CI ??
62DI ??
                                                                                                                                                                                                                                   .ds
                                                                                                                                                                                                                                   62E8 ??
62E9 ??
                                                                                                                                                                                                                                      .ds
```

unk\_0\_6350: unk\_0\_6351: unk\_0\_6352: unk\_0\_6353: unk\_0\_6354:

```
635A ??
635B ??
635C ??
635D ??
635E ??
635F ??
6361 ??
6362 ??
6363 ??
6364 ??
6365 ??
6366 ??
                                                                                   .ds
                                                                                   .ds
.ds
.ds
.ds
.ds
.ds
.ds
6363
6364
6365
6366
6367
6368
6369
636A
            5.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.5<l
                                                                                   636B
636C
636D
636E
636F
6370
6371
6372
6373
6374
6375
6376
6377
6378
6379
637A
637B
637C
637D
            ??
                                                                                   .ds
.ds
.ds
637D ??
637E ??
637F ??
6380 ??
6381 ??
6382 ??
6383 ??
6384 ??
6385 ??
                                                                                   .ds
.ds
.ds
                                          unk_0_6380:
                                          unk_0_6381:
unk_0_6382:
unk_0_6383:
                                                                                                                                                                                                         ; DATA XREF: difficulty_timer_tick+7↑o
                                                                                   .ds
                                                                                   .ds
                                                                                                                                                                                                         ; DATA XREF: 0000:02D1\u00e7o
; DATA XREF: difficulty_timer_tick\u00e7o
; DATA XREF: 0000:0A76\u00f1r
                                          unk 0 6384:
                                                                                   .ds
                                          intro_sequencer:.ds
6385
6386 ??
6387 ??
6388 ??
                                                                                                                                                                                                             0000:0ABA1o ...
                                          unk_0_6386:
                                          unk_0_6387:
unk_0_6388:
                                                                                                                                                                                                         ; DATA XREF: 0000:161F\r\; 0000:1633\r\...
6388
6389 ??
                                                                                   .ds 1
                                          unk_0_6389:
                                                                                                                                                                                                         ; DATA XREF: 0000:07CB\r; 0000:07D5\r ...
 638A ??
                                          title_flash_tmr_1:.ds 1
638A
638B
638C
                                          title_flash_tmr_2:.ds 1
                                          bonus_timer:
                                                                           .ds 1
638D ??
638D
638E ??
638E
                                         unk_0_638D:
                                                                                                                                                                                                            DATA XREF: 0000:0B58\frac{1}{2}w
0000:0B94\frac{1}{2}r ...
DATA XREF: 0000:0AD4\frac{1}{2}w
0000:0B3B\frac{1}{2}r ...
                                         unk_0_638E:
                                                                                .ds 1
638F ??
638F
6390 ??
6390
                                                                                                                                                                                                         ; DATA XREF: sub_0_2C03+4C\forall w
; sub_0_2C8F+8D\forall r
; DATA XREF: animate_kong_and_pauline+2B\forall o
; animate_kong_and_pauline+8B\forall r
...
                                         unk_0_638F:
                                                                           .ds 1
                                         kong_thrash_tmr:.ds 1
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+4Afr
                                         unk_0_6394:
                                                                                .ds 1
                                                                                                                                                                                                            sub_0_2ED4+75↑o
DATA XREF: sub_0_2ED4+7C↑o
sub_0_2ED4+87↑w ...
                                         unk_0_6395:
6395
6396 ??
6397 ??
6398 ??
6399 ??
                                                                                 .ds 1
                                         unk_0_6396:
                                         .ds 1
mario_on_elevator:.ds 1
                                                                                .ds 1
639A ??
639B ??
639B
639C ??
                                          unk 0 639A:
                                                                                   .ds
                                          unk_0_639B:
                                                                                                                                                                                                         ; DATA XREF: sub_0_2523\uparrow o
                                                                                                                                                                                                             sub_0_2523+65↑w
                                                                                  .ds 1
639C ??
639D ??
639E ??
639E ??
63AO ??
63AO
                                                                                                                                                                                                         ; DATA XREF: 0000:127F<sup>†</sup>r
; 0000:1295<sup>†</sup>o ...
; DATA XREF: 0000:129B<sup>†</sup>w
; 0000:12B2<sup>†</sup>o
                                                                                 .ds 1
                                         unk_0_639D:
                                         unk_0_639E:
                                                                                 .ds 1
                                          unk_0_63A0:
                                                                                                                                                                                                         ; DATA XREF: sub_0_3A2+39\w0000:0768\w0000.
63A0
63A1 ??
63A2 ??
63A3 ??
63A4 ??
63A5 ??
                                          unk 0 63A1:
                                                                                  .ds 1
           ??
                                          unk_0_63A2:
unk_0_63A3:
                                                                                  .ds
                                          unk_0_63A4:
unk 0 63A5:
                                                                                   .ds
63A6
63A7
63A7
                                          unk 0 63A6:
                                                                                   .ds
                                                                                                                                                                                                         ; DATA XREF: 0000:0BFA\u00e10
; 0000:0C43\u00e1r ...
                                          unk_0_63A7:
                                                                                  .ds
63A7 7 63A8 ?? 63A9 ?? 63A9 ?? 63A9 ?? 63AB ?? ?? 63AB ?? ?? 63AB ?? ?? 63B1 ?? 63B2 ?? 63B3 ?? 63B4 ?? 63B5 ?? 63B8 ??
                                         unk_0_63A8:
                                                                                  .ds 1
                                                                                   .ds
.ds
                                          segment addr 1:
                                                                                  .ds
                                          segment_addr_1: .ds
segment_addr_2: .ds
start_tile_index: .ds
end_tile_index: .ds
                                          dY:
                                                                                   .ds
                                          dx:
                                                                                    .ds
                                          segment_type:
                                          tile byte 1:
                                                                                   .ds
                                          current_tile_in_segment:.ds 1
                                                                                 .ds
                                          unk_0_63B7:
                                                                                                                                                                                                         ; DATA XREF: 0000:06351r; 0000:06AC10
                                         unk 0 63B8:
                                                                                  .ds
 63B8
 63B9
63BA
                                          unk_0_63B9:
                                                                                  .ds
                                                                                   .ds
 63BB
            ??
 63BC ??
63BD ??
63BE ??
                                                                                   .ds
                                                                                   .ds
 63BF
                                                                                    .ds
 63C0 ??
                                         unk_0_63C0:
```

; DATA XREF: 0000:1166\u00e90

; DATA XREF: 0000:1151\u00e90

unk\_0\_64A0:

unk\_0\_64A3:

```
64A7 ??
64A8 ??
64A8 ??
64A8 ??
64A8 ??
64A8 ??
64A8 ??
64B8 ??
64B9 ??
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: 0000:115D↑o
                                                                                                                                                                                  unk_0_64A7:
                                                                                                                                                                                                                                                                                                                                                           unk_0_6500:
                                                                                                                                                                                                                                                                                                                                                             .ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: init_spring_sprites+C\uparrowo ; 0000:28F9\uparrowo ...
                                                                                                                                                                                                                                                                                                                                                           unk_0_6507:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: init_spring_sprites+3\u00e100
```

; DATA XREF: 0000:1096 o

.ds

.ds

unk\_0\_6600:

```
6600 ??
6601 ??
6602 ??
6603 ??
6604 ??
6608 ??
6608 ??
6608 ??
6608 ??
6600 ??
6600 ??
6601 ??
6610 ??
6611 ??
6612 ??
6612 ??
6613 ??
6614 ??
6614 ??
6615 ??
6616 ??
6617 ??
6618 ??
6618 ??
6619 ??
6610 ??
6610 ??
6610 ??
6610 ??
6611 ??
6611 ??
6611 ??
6612 ??
6612 ??
6613 ??
6614 ??
6615 ??
6616 ??
6617 ??
6618 ??
6618 ??
6619 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
6610 ??
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; 0000:10CF1o ...
                                                                                                                                                                                                                                                                                       unk_0_6603:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; DATA XREF: 0000:10BA\u00e10
                                                                                                                                               unk_0_6607:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: 0000:10C6†o
                                                                                                                                               unk_0_660D:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; DATA XREF: 0000:10AA10
```

File. E. \Projects\pace\pacedev.n	et/sw/re
6759 ??	.ds 1
675A ??	.ds 1
675B ??	.ds 1 .ds 1
675C ?? 675D ??	.ds 1 .ds 1
675E ??	.ds 1
675F ??	.ds 1
6760 ?? 6761 ??	.ds 1 .ds 1
6762 ??	.ds 1
6763 ??	.ds 1
6764 ??	.ds 1
6765 ?? 6766 ??	.ds 1
6766 ?? 6767 ??	.ds 1
6768 ??	.ds 1
6769 ?? 676A ??	.ds 1
676A ?? 676B ??	.ds 1
676C ??	.ds 1
676D ?? 676E ??	.ds 1
676F ??	.ds 1
6770 ??	.ds 1
6771 ?? 6772 ??	.ds 1
6773 ??	.ds 1
6774 ??	.ds 1
6775 ??	.ds 1
6776 ?? 6777 ??	.ds 1
6778 ??	.ds 1
6779 ?? 677A ??	.ds 1 .ds 1
677A ?? 677B ??	.ds 1
677C ??	.ds 1
677D ??	.ds 1
677E ?? 677F ??	.ds 1
6780 ??	.ds 1
6781 ??	.ds 1
6782 ?? 6783 ??	.ds 1
6784 ??	.ds 1
6785 ??	.ds 1
6786 ?? 6787 ??	.ds 1
6787 ?? 6788 ??	.ds 1
6789 ??	.ds 1
678A ??	.ds 1
678B ?? 678C ??	.ds 1
678D ??	.ds 1
678E ??	.ds 1
678F ?? 6790 ??	.ds 1
6791 ??	.ds 1
6792 ??	.ds 1
6793 ?? 6794 ??	.ds 1
6795 ??	.ds 1
6796 ??	.ds 1
6797 ?? 6798 ??	.ds 1
6799 ??	.ds 1
679A ??	.ds 1
679B ?? 679C ??	.ds 1
679D ??	.ds 1
679E ??	.ds 1
679F ?? 67A0 ??	.ds 1 .ds 1
67A1 ??	.ds 1
67A2 ??	.ds 1
67A3 ?? 67A4 ??	.ds 1
67A5 ??	.ds 1
67A6 ??	.ds 1
67A7 ?? 67A8 ??	.ds 1 .ds 1
67A9 ??	.ds 1
67AA ??	.ds 1
67AB ?? 67AC ??	.ds 1 .ds 1
67AD ??	.ds 1
67AE ??	.ds 1
67AF ?? 67B0 ??	.ds 1 .ds 1
67B0 ?? 67B1 ??	.ds 1
67B2 ??	.ds 1
67B3 ?? 67B4 ??	.ds 1
67B5 ??	.ds 1 .ds 1
67B6 ??	.ds 1
67B7 ?? 67B8 ??	.ds 1
67B9 ??	.ds 1 .ds 1
67BA ??	.ds 1
67BB ?? 67BC ??	.ds 1 .ds 1
67BD ??	.ds 1
67BE ??	.ds 1
67BF ?? 67C0 ??	.ds 1 .ds 1
67C0 ?? 67C1 ??	.as 1
67C2 ??	.ds 1
67C3 ?? 67C4 ??	.ds 1
67C5 ??	.ds 1 .ds 1
67C6 ??	.ds 1
67C7 ??	.ds 1
67C8 ?? 67C9 ??	.ds 1 .ds 1
67CA ??	.ds 1
67CB ??	.ds 1
67CC ??	.ds 1

```
DATA XREF: 0000:0139 o clear_tiles_and_sprites+11 o ...
0- 1 = pauline
2-11 = kong
12-
                                                                                                         .
19 = mario
```

File: E:\Projects\pa	ce\pacedev.net\sw\re
6AA3 ??	.ds 1
6AA4 ??	.ds 1
6AA5 ??	.ds 1
6AA6 ??	.ds 1
6AA7 ?? 6AA8 ??	.ds 1 .ds 1
6AA9 ??	.ds 1
6AAA ??	.ds 1
6AAB ??	.ds 1
6AAC ?? 6AAD ??	.ds 1 .ds 1
6AAE ??	.ds 1
6AAF ??	.ds 1
6AB0 ??	.ds 1
6AB1 ?? 6AB2 ??	.ds 1 .ds 1
6AB3 ??	.ds 1
6AB4 ??	.ds 1
6AB5 ?? 6AB6 ??	.ds 1
6AB7 ??	.ds 1 .ds 1
6AB8 ??	.ds 1
6AB9 ??	.ds 1
6ABA ?? 6ABB ??	.ds 1 .ds 1
6ABB ?? 6ABC ??	.ds 1 .ds 1
6ABD ??	.ds 1
6ABE ??	.ds 1
6ABF ?? 6ACO ??	.ds 1 .ds 1
6ACO ?? 6AC1 ??	.ds 1
6AC2 ??	.ds 1
6AC3 ??	.ds 1
6AC4 ?? 6AC5 ??	.ds 1 .ds 1
6AC6 ??	.ds 1
6AC7 ??	.ds 1
6AC8 ??	.ds 1
6AC9 ?? 6ACA ??	.ds 1 .ds 1
6ACB ??	.ds 1
6ACC ??	.ds 1
6ACD ??	.ds 1
6ACE ?? 6ACF ??	.ds 1 .ds 1
6AD0 ??	.ds 1
6AD1 ??	.ds 1
6AD2 ??	.ds 1
6AD3 ?? 6AD4 ??	.ds 1 .ds 1
6AD5 ??	.ds 1
6AD6 ??	.ds 1
6AD7 ?? 6AD8 ??	.ds 1
6AD8 ?? 6AD9 ??	.ds 1 .ds 1
6ADA ??	.ds 1
6ADB ??	.ds 1
6ADC ?? 6ADD ??	.ds 1 .ds 1
6ADE ??	.ds 1
6ADF ??	.ds 1
6AE0 ??	.ds 1
6AE1 ?? 6AE2 ??	.ds 1 .ds 1
6AE3 ??	.ds 1
6AE4 ??	.ds 1
6AE5 ??	.ds 1
6AE6 ?? 6AE7 ??	.ds 1
6AE8 ??	.ds 1
6AE9 ??	.ds 1
6AEA ?? 6AEB ??	.ds 1 .ds 1
6AEB ?? 6AEC ??	.ds 1 .ds 1
6AED ??	.ds 1
6AEE ??	.ds 1
6AEF ?? 6AFO ??	.ds 1 .ds 1
6AF1 ??	.ds 1
6AF2 ??	.ds 1
6AF3 ??	.ds 1
6AF4 ?? 6AF5 ??	.ds 1 .ds 1
6AF6 ??	.ds 1
6AF7 ??	.ds 1
6AF8 ??	.ds 1
6AF9 ?? 6AFA ??	.ds 1 .ds 1
6AFB ??	.ds 1
6AFC ??	.ds 1
6AFD ?? 6AFE ??	.ds 1 .ds 1
6AFE ?? 6AFF ??	.ds 1 .ds 1
6B00 ??	.ds 1
6B01 ??	.ds 1
6B02 ?? 6B03 ??	.ds 1 .ds 1
6B04 ??	.ds 1
6B05 ??	.ds 1
6B06 ?? 6B07 ??	.ds 1 .ds 1
6B07 ?? 6B08 ??	.ds 1 .ds 1
6B09 ??	.ds 1
6B0A ??	.ds 1
6B0B ?? 6B0C ??	.ds 1 .ds 1
6B0D ??	.as 1 .ds 1
6B0E ??	.ds 1
6B0F ??	.ds 1
6B10 ?? 6B11 ??	.ds 1 .ds 1
6B12 ??	.ds 1
6B13 ??	.ds 1
6B14 ?? 6B15 ??	.ds 1 .ds 1
6B16 ??	.ds 1

6886 ??
6886 ??
6887 ??
6891 ??
6891 ??
6893 ??
6894 ??
6896 ??
6897 ??
6898 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ??
6899 ? 

```
6BFF ??
                                                                             .ds 1
    6BFF ; end of 'RAM'
6BFF ; end of 'RAM'
7000 ;
7000 ; segment type: Regular
7000 ; segment 'SPRAM'
7000 ?? ?? ?? ??+SPRAM_start: .ds 0x400
7000 ?? ?? ?? ?? ??+
7000 ?? ?? ?? ?? ??+
7000 ?? ?? ?? ?? ??+
7000 ?? ?? ?? ?? ??+
7000 ?? ?? ?? ?? ??+
7000 ?? ?? ?? ?? ??+
7000 ?? ?? ?? ?? ??+
7000 ?? ?? ?? ?? ??+
7000 ?? ?? ?? ?? ??+
7400 ; 7400 ;
                                          ; end of 'RAM'
     6BFF
                                                                                                                                                                                               DATA XREF: 0000:013D\o
                                                                                                                                                                                              DATA XREF: 0000:013Df0
0000:0276f0
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
    ; Segment type: Regular
; segment 'VRAM'
                                                                        .org 0x7400
.ds 0x400
                                                                                                                                                                                          ; DATA XREF: 0000:0285\u00f30 o ; clear_tiles_and_sprites\u00f30 ...
; Segment type: Regular ; segment 'I8257'
                                                                                                                                                                                           ; DATA XREF: 0000:00721r
                                                                                                                                                                                           ; update_sounds+31o ...
                                                                                                                                                                                          ; DATA XREF: 0000:01E4\dagger w ; 0000:02AF\dagger w ...
                                                                                                                                                                                          ; DATA XREF: 0000:02A8\dagger w ; 0000:0779\dagger o ...
     7D88 ?? ?? ?? ??+
7D88 ?? ?? ?? ??+; end of 'IO'
7D88 ?? ?? ?? ??+
7D88 ?? ?? ?? ??+; end of file
```