```
This file is generated by The Interactive Disassembler (IDA)
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                          ; File Name : E:\Projects\NeoKong\arcade\dkong.bin
; Format : Binary File
; Base Address: 0000h Range: 0000h - 4000h Loaded length: 4000h
                            Processor: z80
Target assembler: ASxxxx by Alan R. Baldwin v1.5
.area idaseg (ABS)
.area idaseg (ABS)
.hd64 ; this is needed only for HD64180
                          ; Segment type: Pure code
; segment 'ROM'
0000
0000 3E 00
0000 3E 00
0000 0002 32 84 7D
0005 C3 66 02
                          RESET:
                                                                                                                            ; CODE XREF: 0000:00B2 | j ; DATA XREF: 0000:0FCD | o
                                                   ld
                                                               (nmi_mask), a
                                                   jр
                                                               TNTT
0008
0008
0008
                                                 SUBROUTINE
0008
0008
0008 3A 07 60
0008
                                                                                                                            ; CODE XREF: flash_1UP_or_2UP+7|p
; add_bonus_and_update_high_score+1|p ...
                          return_if_attract_mode:
                                                  1d
                                                              a. (attract mode flag)
0008
000B 0F
000C D0
000D 33
000E 33
                                                  rrca
ret
                                                               NC
                                                   inc
                                                               sp
                                                                                                                            ; discard return address
                                                   inc
                                                               sp
                          ret
; End of function return_if_attract_mode
000F C9
000F
000F
0010
0010
0010
                                  SUBROUTINE
0010
0010
0010
0010 3A 00 62
0013 0F
0013 0F
0014 D8
0015 33
0016 33
0017 C9
0017
0017
0018
                                                                                                                            ; CODE XREF: sub_0_3A2+3\protect\operatorname{p}; sub_0_2C03+3\protect\operatorname{p} ...
                          return_if_mario_not_alive:
                                                   ld
                                                               a, (mario_alive_flag)
                                                                                                                            ; is mario alive?
                                                   rrca
                                                   ret
inc
inc
                                                                                                                            ; yes, return
                                                               sp
                                                                                                                            ; discard return address
                                                               sp
                                                   ret
                          ; End of function return_if_mario_not_alive
0018
0018
0018
                          ; SUBROUTINE
                          return NOT 8bit timeout:
                                                                                                                              CODE XREF: return NOT 16bit timeout+4|j
0018 21 09 60
                                                                                                                            ; 0000:0A63|p ..
0018
001B 35
                                                  ld
dec
                                                              hl, #eight_bit_countdown (hl)
001C C8
                                                   ret
                                                               Z
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
0032 19
0033 5E
0034 23
0035 56
                                                                                                                            ; 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)
                                                  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 28/11/2013, 10:46:00 PM
0038
0038
0038
0038 11 04 00
0038
                                                                                                                                               ; CODE XREF: animate_kong_and_pauline+F|p
; animate_kong_and_pauline+65|p ...
; every 4th byte
; loop 10 times
                              add_c_sprite_register_x10:
0038 06 0A
003D
003D
003D 79
                                                                         b, #10
                                                           ld
                                                                                                                                               ; CODE XREF: sub_0_30+11|j; 0000:0D9A|p ...
                              loc_0_3D:
003D
003E 86
003F 77
0040 19
                                                                        a, c
a, (hl)
(hl), a
hl, de
                                                           ld
                                                          add
ld
add
                                                                                                                                               ; (HL)+=C
; next byte
0041 10
0043 C9
0044
0044
        10 FA
                                                           djnz
                                                                         loc_0_3D
                                                                                                                                                ; 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
                                                           1d
                                                                                                                                                   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 B5 00
0087 3A 26 60
0088 A7
008B C2 98 00
008E 3A 0E 60
0091 A7
0092 3A 80 7C
0095 C2 9B 00
                                                                         a, (upright)
                                                                         NZ, loc_0_98
                                                           jp
ld
                                                                         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
```

; store

; reset input?

; CODE XREF: 0000:008414

; IRQ resume address

; general purpose timer tick
; randomise

or 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 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 00B5

00C5 E5

h, b

a, b

h1

6, a NZ, RESET

sub_0_17B update_sounds

hl, #nmi_exit

a, (nmi_sequencer)

(controller_in), hl

hl, #gen_purpose_timer
(hl)
rand

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
00C9 EF
                                                          rst
00C9
00CA C3 01
00CC 3C 07
00CE B2 08
                                                          .dw init_machine_settings
.dw chk_credits_and_vector_on_attrac
.dw vector_on_credit_sequencer
                                                                                                                                             ; Jump table (nmi sequencer)
00D0 FE 06
                                                          .dw vector_on_ingame_sequencer
00D2
00D2
00D2
                                                                                                                                             ; DATA XREF: 0000:00C210
                             nmi_exit:
00D2 FD E1
00D4 DD E1
00D6 E1
00D7 D1
                                                                       iy
ix
hl
de
                                                          qoq
                                                         pop
                                                          pop
00D8 C1
00D9 3E 01
00DB 32 84 7D
00DE F1
                                                          pop
ld
ld
                                                                       bc
a, #1
(nmi_mask), a
                                                                                                                                             ; enable_nmi
                                                         pop
ret
                                                                       af
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
                                                                       a, (attract_mode_flag)
                                                                                                                                             ; base of digital sound triggers
                                                          ld
                                                          ld
and
                                                                                                                                             ; in attract mode?
                                                                                                                                             ; yes, return
; 8 digital sound triggers
                                                          ret
                                                                       NZ
                                                          14
                                                                       b. #8
00ED
00ED
00ED
                                                                                                                                               CODE XREF: update_sounds+18|j
timer for this sound
done?
yes, skip
decrement timer
                             loc_0_ED:
                                                          ld
                                                                       a, (hl)
00EE A7
00EF CA F5 00
00F2 35
00F3 3E 01
                                                          and
jp
dec
                                                                       a
Z, loc_0_F5
                                                                       (hl)
a, #1
                                                          ld
                                                                                                                                             ; enable
00F5
00F5
00F5
12
                                                                                                                                               CODE XREF: update_sounds+F<sup>†</sup>j set trigger state for this sound next latch
                              loc_0_F5:
                                                                        (de), a
                                                          ld
00F5 12

00F6 1C

00F7 2C

00F8 10 F3

00FA 21 8B 60

00FD 7E

00FF A7

00FF C2 08 01

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
                                                                       a, (hl)
                                                          ld
                                                                                                                                             ; 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, #unk_0_6088
                                                                                                                                             ; background sound/music select
                                                          ld
xor
                                                                        a
(hl)
                                                                       Z, loc_0_118
(hl)
                                                          ср
                                                          jp
dec
inc
                                                                                                                                             ; CODE XREF: update_sounds+33↑j; digital sound - dead
                              loc_0_118:
                                                          ld
                                                                       (dsw_audio_irq), a
                                                          ret
; End of function update_sounds
                                                       SUBROUTINE
                             stop_sound:
                                                                                                                                             ; CODE XREF: sub_0_17B+1A|p; 0000:02B5|p ...
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|j
; kill latch
; kill timer
                              loc_0_125:
                                                                        (hl), a (de), a
                                                          ld
0125 77
0126 12
0127 2C
0128 1C
0129 10 FA
012B 06 04
012D
012D
012D 12
                                                          ld
                                                                        loc_0_125
b, #4
                                                                                                                                             ; write 8 bytes
                                                          djnz
ld
                             loc_0_12D:
                                                                                                                                             ; CODE XREF: stop_sound+13|j
                                                          ld
                                                                        (de), a
012D 12
012E 1C
012F 10 FC
013I 32 80
0134 32 00
0137 C9
0137
0137
0137
0138 53
0138 53
0138 00 69
013B 80 41
013D 00 70
013F 80 81
                                                         djnz
ld
ld
                                                                       loc_0_12D
                                                                                                                                             ; another 4 copies ; audio IRQ
                                                                        (dsw_audio_irq), a
                                                                                                                                             ; background music = NONE
                                                                        (in0), a
                              ret
; End of function stop_sound
                                                                                                                                                DATA XREF: 0000:007A o DMA mode (TC stop, CH0,1) CH0 address
                                                          .db 0x53
                              dma_reg_tbl:
```

.dw soft sprite ram

(p8257_drq), a

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

.dw 0x4180

xor ld

ld

1d

dma_sprite_data_to_hw

0141

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

CH1 Address
CH1 terminal count (WR 0x180 bytes)

; CODE XREF: 0000:007D1p

; deassert DRQ0&1 0x53

; mode set

```
01D1
01D3
01D6
01D9
          3E 01
32 07 60
32 29 62
32 28 62
                                                                        ld
ld
ld
                                                                                          (attract_mode_flag), a
(level), a
(lives_left), a
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 32 0A 60
01F1 CD 53 0A 60
01F1 CD 53 0A 60
01F4 11 04 03
01F7 CD 9F 30
01FA 11 02 02
01FD CD 9F 30
02D0 11 00 02
0203 CD 9F 30
                                                                        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
0206
0207
0207
          C9
                                      ; SUBROUTINE SUBROUTINE
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
                                                            inc
                                                                          (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
                                                                          h, #0x60 ; '`'
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
sub_0_37F
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
ld
                                                                                                                                                   ; 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: 0000:02F21j
                              loc_0_2F6:
02F6 32 B1 60
02F9 79
02FA 21 BD 02
02FD E5
                                                            ld
                                                                          (fg_fn_queue_head), a
                                                            ld
ld
                                                                                                                                                   ; vector fn param
                                                                          hl, #main_loop
                                                                                                                                                  ; return address
; jump table
                                                            push
ld
02FD E5
02FE 21 07 03
0301 19
0302 5E
                                                                          hl
                                                                          hl, #foreground_vector_table
0301 19
0302 5E
0303 23
0304 56
                                                                          hl, de
e, (hl)
hl
                                                            add
ld
                                                                                                                                                   ; entry index
                                                            inc
                                                                          d, (hl)
                                                            14
                                                                                                                                                   ; DE=vector address
0305 EB
0306 E9
                                                                          de, hl
                                                                                                                                                   ; HL=vector address
; jump
                                                            jр
0306
0307 1C 05
0307
0309 9B 05
                                                                                                                                                  ; DATA XREF: 0000:02FE<sup>†</sup>o; jump table
                               {\tt foreground\_vector\_table:.dw~add\_bonus\_and\_update\_high\_score}
                                                            .dw zero_score_or_high_score
030B C6 05
030D E9 05
030F 11 06
0311 2A 06
                                                            .dw display_score_or_high_score
.dw print_message_A
.dw display_credits_if_attract_mode
.dw update_bonus_timer
0311 2A 00
0313 B8 06
0315
0315
0315
                                                            .dw display_lives_and_level
                                                  SUBROUTINE
0315
0315
0315 3A 1A 60
0318 47
0319 E6 0F
031B C0
031C CF
031D 3A 0D 60
0320 CD 47 03
0323 11 E0 FF
0326 CB 60
0328 28 14
                               flash_1UP_or_2UP:
                                                                                                                                                   ; CODE XREF: 0000:02C71p
                                                            ld
                                                                          a, (gen purpose timer)
                                                                         b, a
#0xF
NZ
                                                                                                                                                  ; save timer
                                                           ld
                                                           and
ret
                                                                                                                                                   ; return if attract mode
                                                            rst
ld
                                                                          8
                                                                          a, (current player D)
                                                           call
ld
bit
                                                                          get_lUP_or_2UP_screen_location
de, #0xFFE0
4, b
z, loc_0_33E
                                                                                                                                                     column address offset unhide 1UP/2UP?
0328 28 14
032A 3E 10
032C 77
032D 19
                                                            jr
ld
ld
                                                                                                                                                   ; yes, skip
                                                                          a, #0x10
(h1), a
h1, de
                                                                                                                                                   ; " "
; wipe "1" or "2"
; next column
; wipe "U"
; next column
; wipe "P"
                                                            add
032E
032F
0330
                                                           ld
add
ld
                                                                          (hl), a
hl, de
(hl), a
0330 77
0331 3A 0F 60
0334 A7
0335 C8
0336 3A 0D 60
0339 EE 01
033B CD 47 03
033E
                                                                          a, (two_players)
                                                            1d
                                                            and
ret
                                                                                                                                                   ; 1 player?
; yes, return
                                                                          a, (current_player_D) #1
                                                            ld
                                                            xor
                                                            call
                                                                          get_1UP_or_2UP_screen_location
                                                                                                                                                   ; CODE XREF: flash 1UP or 2UP+13 | j
033E
                              loc 0 33E:
033E
033E 3C
033F 77
0340 19
0341 36 25
0343 19
0344 36 20
0346 C9
                                                                          a
(h1), a
h1, de
(h1), #0x25; '%'
h1, de
(h1), #0x20; ''
                                                                                                                                                   ; "1" or "2"
; next column
; "U"
                                                           ld
add
                                                            ld
                                                                                                                                                   ; next column ; "P"
                                                            add
                                                            ld
                                                            ret
                              ; End of function flash_1UP_or_2UP
0346
0346
```

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

0350

0350

0350

0350

0350

0350

0350

0355

0354

00

0355

21

83

83

83

00

60

0358

83

00

0358

83

00

0358

83

00

0358

83

00

0358

21

0361

0361

0361

0361

0361

0362

0362

0362

0364

037

0362

0363

0363

0364

0366

0366

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036
                                                                              SUBROUTINE
                                                  check_and_award_bonus:
                                                                                                                                                                                                                                          ; CODE XREF: 0000:02CATp
                                                                                               ld
and
                                                                                                                      a, (awarded_bonus_life)
                                                                                                                                                                                                                                          ; already got bonus life?
                                                                                                ret
                                                                                                                      NZ
                                                                                                                                                                                                                                          ; ves. return
                                                                                                1d
                                                                                                                      hl, #p1_score+1
                                                                                                ld
                                                                                                                      a, (current_player_D)
                                                                                                                      a
Z, loc_0_361
                                                                                                                                                                                                                                          ; player 1?
; yes, skip
                                                                                                and
                                                                                                ir
                                                                                                ĭd
                                                                                                                      hl, #p2_score+1
                                                                                                                                                                                                                                              CODE XREF: check_and_award_bonus+C|j 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
                                                                                                                               (hl)
                                                                                                                                                                                                                                              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 display_lives_a
; End of function check_and_award_bonus
037C
037F
037F
037F
037F
037F
                                                                                             SUBROUTINE
                                                 sub_0_37F:
                                                                                                                                                                                                                                         ; CODE XREF: 0000:02DB1p
037F 21 84 63
0382 7E
0383 34
0384 A7
                                                                                                                     h1, #unk_0_6384
a, (h1)
(h1)
                                                                                                1d
                                                                                               ld
inc
and
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
ld
                                                                                                                      hl, #unk_0_6381
a, (hl)
b, a
                      81 63
                                                                                                                       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
                                                                                                ld
add
                                                                                                ср
                                                                                                                      C, loc_0_39E
a, #5
039A 38 02
039C 3E 05
039E
039E
                                                                                                                                                                                                                                        ; CODE XREF: sub 0 37F+1B1i
                                                 loc 0 39E:
039E 32 80 63
03A1 C9
03A1
03A1
                                                                                               1d
                                                                                                                      (unk_0_6380), a
                                                                                                ret
                                                 ; End of function sub_0_37F
03A1

03A2

03A2

03A2

03A2

03A2

03A2

03A2

03A4 F7

03A5 D7

03A6 3A 50 63

03A9 0F

03AA D8

03AB 21 B8 62
                                                                                             SUBROUTINE
                                                  sub_0_3A2:
                                                                                                                                                                                                                                          ; CODE XREF: 0000:02DETp
                                                                                                                      a, #3
0x30
0x10
                                                                                                                                                                                                                                         ; return if level bit not set ; return if mario not alive
                                                                                                rst
rst
                                                                                               ld
rrca
                                                                                                                      a, (unk_0_6350)
                                                                                                ret
03AB 21 B8 62
03AE 35
03AF C0
03B0 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
             21 29 6A
06 40
                                                                                                ld
                                                                                                                      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, (soft_sprite_ram+0x10)
#59
040A FF
040B 3A 10 69
040E D6 3B
0410 32 B7 63
0413
0413 3A 91 63
0416 A7
0417 C2 26 04
041A 3A 1A 60
041D A7
041E C2 86 04
040A FF
                                                           rst
                                                           1d
                                                                         (unk_0_63B7), a
                                                           ld
                              loc_0_413:
                                                                                                                                                ; CODE XREF: animate_kong_and_pauline+5<sup>†</sup>j
                                                           ld
                                                                         a, (kong_thrash_flag)
                                                           and
                                                                                                                                                ; thrashing arms?
; yes, continue
                                                           jp
ld
and
                                                                         NZ. loc 0 426
                                                                         a, (gen_purpose_timer)
U41D A7
041E C2 86 04
0421 3E 01
0423 32 91 63
0426
                                                                                                                                                 ; expired?
                                                           jp
ld
ld
                                                                                                                                                 ; no, animate Pauline
                                                                         NZ, animate_pauline
                                                                                                                                                 ; flag thrashing
                                                                         (kong_thrash_flag), a
0426
0426 21 90 63
0429 34
042A 7E
                              loc 0 426:
                                                                                                                                                 ; CODE XREF: animate_kong_and_pauline+1Cfj
                                                                        hl, #kong_thrash_tmr
(hl)
a, (hl)
#128
                                                           ld
                                                                                                                                                ; inc
; get timer
; finished thrashing?
; yes, continue
                                                           inc
ld
042A 7E
042B FE 80
042D CA 64 04
0430 3A 93 63
0433 A7
0434 C2 86 04
0437 7E
0438 E6 1F
0438 B C2 86 04
0432 21 CF 39
0441 CB 68
0443 20 03
0445 21 F7 39
0448 CD 4E 00
                                                           cp
jp
ld
                                                                         Z, draw_kong_mouth_closed
a, (barrel_deployment)
                                                                                                                                                 ; deployment in progress?
; yes, skip (no thrashing)
; get timer
                                                           and
                                                           jp
ld
ld
                                                                         NZ, animate_pauline
                                                                         a, (hl)
b, a
#31
                                                                                                                                                ; time to thrash arms?
; no, skip (animate Pauline)
                                                           and
                                                                        #31
NZ, animate_pauline
hl, #dk_thrash_right_spr
5, b
NZ, do_kong_thrash
hl, #dk_thrash_left_spr
                                                           jp
ld
bit
                                                                                                                                                ; left/right depending on timer
                                                           jr
                                                           ĺd
                                                                                                                                                ; CODE XREF: animate_kong_and_pauline+48|j
                              do_kong_thrash:
0448 CD 4E 00
044B 3E 03
044D 32 82 60
0450
                                                           call
                                                                         copy_sprites_2_11_data
                                                                                                                                                 ; tmr=3
                                                           ld
                                                                         (digital_snd_tmr_thump), a
0450

0450

0450 3A 27 62

0453 0F

0454 D2 78 04

0457 0F

0458 DA 86 04

045B 21 0B 69

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

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
0489 4F
0489 4F
048A 11 20 00
048D 3A 27 62
0490 FE 04
0492 CA BE 04
0495 79
0496 A7
0497 CA A1 04
0490 3E EF
                                                                  de, #0x20 ; ' '
a, (level_type)
#4
                                                      ld
                                                      ld
                                                                                                                                    ; rivets?
; yes, skip
; kong_thrash_tmr
                                                      ср
                                                                   Z, display_help_rivets_level
                                                      jp
ld
                                                                   a,
                                                      and
                                                                                                                                       finished?
                                                                   Z, wipe_help
                                                      jp
ld
                                                                                                                                      yes, skip
                                                                   a, #0xEF ;
                                                                                                                                    ; time to display help?
; yes, skip
049C CB 71
049E C2 A3 04
04A1
04A1
                                                      bit
                                                                   NZ, display_or_wipe_help
                                                                                                                                   ; CODE XREF: animate_kong_and_pauline+9Cfj
; blank tiles
                           wipe_help:
04A1 3E 10
04A3
04A3
04A3 21 C4 75
                                                     1d
                                                                   a. #0x10
                                                                                                                                   ; CODE XREF: animate_kong_and_pauline+A3<sup>†</sup>j
; screen position for HELP!
                           display_or_wipe_help:
                                                                   hl, #VRAM start+0x1C4
                                                      ld
04A6 CD 14 05
04A9 3A 05 69
04AC
                                                      call
                                                                  display_3_tiles_HL
a, (soft_sprite_ram+5)
                                                                                                                                    ; display/wipe HELP!
; sprite #1, flipy & code
04AC
04AC 32 05 69
04AC
04AF CB 71
                                                                                                                                    ; CODE XREF: animate kong and pauline+F3 h
                           make_pauline_run:
                                                                                                                                    ; animate_kong_and_pauline+10B ; sprite #1, flipy & code
                                                                   (soft_sprite_ram+5), a
                                                      bit
04B1 C8
                                                      ret
04B2
04B3
                                                      ld
ld
04B4 E6 07
                                                      and
04B4 E6 07
04B6 C0
04B7 78
04B8 EE 03
04BA 32 05 69
04BD C9
                                                      ret
                                                                   NZ.
                                                                  a, b
#3
                                                                                                                                    ; sprite #1, flipy & code
; toggle sprites 0x11/0x12 pauline running
; sprite #1, flipy & code
                                                      ld
                                                      xor
ld
                                                                   (soft_sprite_ram+5), a
                                                     ret
04BE
04BE
                           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+ABîp
0514
                                                                                                                                       animate_kong_and_pauline+C8<sup>†</sup>p ... 3 tiles
0514
0514 06 03
0514
0516
0516
                                                                  b, #3
                                                                                                                                    ; CODE XREF: display_3_tiles_HL+5|j
                           loc 0 516:
0516 77
0517 19
0518 3D
                                                                                                                                    is store tile
is next row/column
is prev tile
is loop for 3 tiles
                                                      14
                                                                  (hl),
hl, de
                                                      add
                                                      dec
        10 FB
                                                     dinz
                                                                   loc 0 516
051B C9
051B
051B
                           ret
; End of function display_3_tiles_HL
051C
051C
051C
                                  SUBROUTINE
                           add_bonus_and_update_high_score:
                                                                                                                                      CODE XREF: 0000:0698 p
051C 4F
051C
                                                                                                                                    ; 0000:06A5|j
; DATA XREF: ...
051C
                                                      ld
```

; return if attract mode

; 3 bytes of score

051D CF 051E CD 5F 05

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

052C 06 03 052E

0521 79 0522 81 rst call

ld add

add ld

ld ld add

1d

current_player_score_DE

hl, #Bonus_Points_Tbl

a b, #3

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
                        loc_0_52E:
                                                                                                                         CODE XREF: add_bonus_and_update_high_score+18|j
                                                                                                                       ; get score BCD pair
; add bonus BCD pair
; adjust for BCD
; update score BCD pair
052E 1A
                                                ld
052E 1A
052F 8E
0530 27
0531 12
0532 13
0533 23
0534 10 F8
0536 D5
                                                adc
daa
ld
                                                            a, (hl)
                                                            (de), a
                                                inc
                                                            de
hl
                                                                                                                      ; next byte
; loop through score
                                                            loc_0_52E
                                                djnz
                                                push
                                                            de
0537 1B
0538 3A 0D 60
053B CD 6B 05
053E D1
                                                 dec
                                                            de
                                                                                                                      ; ptr score
                                                ld
call
                                                            a, (current_player_D)
display_player_A_score
                                                pop
dec
053F 1B
0540 21 BA 60
0543 06 03
0545
                                                           hl, #high_score+2
b, #3
                                                                                                                      ; MSB ; 3 bytes to compare
                                                ld
                                                ld
0545
0545 1A
0546 BE
0547 D8
0548 C2 50 05
054B 1B
054C 2B
                        loc_0_545:
                                                                                                                       ; CODE XREF: add_bonus_and_update_high_score+31|j
                                                                                                                        get byte from score
less than high score?
yes, return
                                                ld
                                                            a, (de)
(hl)
                                                ср
                                                ret
                                                jp
dec
                                                            NZ, new_high_score
                                                                                                                         greater, we have a high score
                                                                                                                      ; same, check next byte; loop through 3 bytes
054D 10 F6
                                                dinz
                                                            loc 0 545
054D 10 F6
054F C9
0550
0550
0550
0550 CD 5F 05
0553 21 B8 60
                                                                                                                      ; CODE XREF: add_bonus_and_update_high_score+2Cfj
                         new_high_score:
                                                call
ld
                                                           current_player_score_DE
hl, #high_score
0556
0556 1A
0557 77
0558 13
                         update_high_score:
                                                                                                                      ; CODE XREF: add_bonus_and_update_high_score+3E|j
                                                                                                                      ; get score byte
; copy to high score
                                                            a, (de)
(hl), a
                                                ld
                                                inc
                                                            de
0559 23
055A 10 FA
055C C3 DA 05
055C
                                                                                                                      ; next location
; loop through 3 bytes
                                                            h1
                                                            ---
update_high_score
                                                            display_high_score
                                                jр
                         ; End of function add_bonus_and_update_high_score
055C
055F
055F
055F
055F
055F
                                               SUBROUTINE
                         current_player_score_DE:
                                                                                                                         CODE XREF: add_bonus_and_update_high_score+21p
055F 11 B2 60
                                                                                                                       ; add_bonus_and_update_high_score+341p
055F
                                                14
                                                            de, #pl score
0562 3A 0D 60
0565 A7
                                                ld
and
                                                            a, (current_player_D)
                                                                                                                      ; player one?
; yes, return
0566 C8
0567 11 B5 60
056A C9
056A
                                                ret
                                                ld
                                                            de, #p2_score
                                                ret
                         ; End of function current_player_score_DE
056A
056B
056B
056B
                                              SUBROUTINE 
056B
056B DD 21 81 77
056B
                                                                                                                         CODE XREF: add_bonus_and_update_high_score+1F^p display_score_or_high_score+11+j
                        display_player_A_score:
                                                ld
                                                            ix, #VRAM start+0x381
056F A7
                                                and
                                                            a
Z, display_score_HL
ix, #VRAM_start+0x121
0570 28 0A
0572 DD 21 21 75
0576 18 04
                                                jr
                                                            display_score_HL
0578
0578
0578
                                                                                                                         CODE XREF: display_score_or_high_score+17|j
                        display_score_at_hs_location:
0578 DD 21 41 76
                                                            ix, #VRAM_start+0x241
                                                ld
                                                                                                                       ; screen position for score
057C
057C
057C EB
                                                                                                                      ; CODE XREF: display_player_A_score+5↑j; display_player_A_score+B↑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
```

SUBROUTINE

NC, loc_0_5BD

hl, #pl_score

Z, loc_0_5AB

zero_score_or_high_score:

ср

jp push ld

and

059B 059B FE 03

059D D2 BD 05

05A0 F5 05A1 21 B2 60

05A5 CA AB 05

059B

05A4 A7

```
Page: 10
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; CODE XREF: zero_score_or_high_score+24|p; DATA XREF: 0000:0309|o

; zero all scores?

; yes, skip

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
05A8 21 B5 60
                                                                hl, #p2_score
                                                   ld
05AB
05AB
                          loc_0_5AB:
                                                                                                                               ; CODE XREF: zero_score_or_high_score+A| j
05AB FE 02
05AD C2 B3 05
                                                                NZ, loc_0_5B3
                                                    jp
ld
05B0 21 B8 60
                                                                hl, #high_score
05B3
05B3
05B3 AF
                           loc_0_5B3:
                                                                                                                               ; CODE XREF: zero_score_or_high_score+12†j
                                                    xor
                                                                a
(hl), a
05B3 AF
05B4 77
05B5 23
05B6 77
05B7 23
05B8 77
                                                    1d
                                                    inc
ld
                                                                hl (hl), a
                                                    inc
                                                                hl
                                                    1d
                                                                 (hl), a
05B9 F1
05BA C3 C6 05
                                                    pop
jp
                                                                display_score_or_high_score
05BD
05BD
05BD
05BD 3D
05BD 3D
05BB F5
05BF CD 9B 05
05C2 F1
05C3 C8
                                                                                                                               ; CODE XREF: zero_score_or_high_score+2fj
; zero_score_or_high_score+29fj
; next score to zero
                           loc_0_5BD:
                                                   dec
                                                   push
call
                                                                af
zero_score_or_high_score
                                                    pop
ret
                                                                af
Z
                                                                                                                               ; return when done
05C3 C8
05C4 18 F7
05C4
05C6
05C6
05C6
05C6
                           jr loc_0_5BD; End of function zero_score_or_high_score
                                                                                                                               ; zero next score
                                                 SUBROUTINE
05C6
05C6 FE 03
05C6
05C6
                                                                                                                               ; CODE XREF: zero_score_or_high_score+1F<sup>†</sup>j
; display_score_or_high_score+1C<sup>†</sup>p
; DATA XREF: ...
                          display_score_or_high_score:
05C8 CA E0 05
05CB 11 B4 60
05CE A7
                                                    jp
ld
                                                                 Z, loc 0 5E0
                                                                de, #pl_score+2
                                                    and
                                                                a
Z, loc_0_5D5
05CF CA D5 05
                                                    jp
ld
05D2 11 B7 60
05D5
05D5
                                                                      #p2_score+2
                           loc 0 5D5:
                                                                                                                               ; CODE XREF: display score or high score+91j
05D5 FE 02
05D7 C2 6B
05DA
                                                    ср
       C2 6B 05
                                                    jp
                                                                NZ, display_player_A_score
05DA
                          display_high_score:
                                                                                                                               ; CODE XREF: add bonus and update high score+401j
05DA 11 BA 60
05DD C3 78 05
05E0
                                                    14
                                                                de, #high score+2
                                                                display_score_at_hs_location
                                                    jр
05E0
05E0
05E0 3D
05E0
                                                                                                                               ; CODE XREF: display_score_or_high_score+2<sup>†</sup>j
; display_score_or_high_score+21<sup>†</sup>j
                           loc_0_5E0:
05E1 E5
                                                   push
call
                                                                af
                                                                ar
display_score_or_high_score
af
Z
05E1 F3
05E2 CD C6 05
05E5 F1
05E6 C8
                                                   pop
ret
05E7 18 F7
05E7
05E7
05E9
                           jr loc_0_5E0 ; End of function display_score_or_high_score
05E9
                                S U B R O U T I N E
05E9
05E9
                                                                                                                               ; CODE XREF: display_credits+2|p
; display_start_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 28/11/2013, 10:46:00 PM
061B 21 01
                                                                        hl, #no_of_credits
                                                          ld
061B 21 01 60
061E 11 E0 FF
0621 DD 21 BF 74
0625 06 01
0627 C3 83 05
0627
0627
0628
062A
                                                          ld
                                                                        de, #0xFFE0
                                                                                                                                               ; column address delta
                                                          ld
ld
                                                                        ix, #VRAM_start+0xBF
b, #1
display_B_bcd_digit_pairs
                                                                                                                                               ; screen position of credits
; 1=2 digits
                                                          jр
                              ; End of function display_credits
062A
062A 7
062B A 7
062B CA 91 06
062E 3A 8C 63
0631 A7
0632 C2 A8 06
0635 3A B8 63
                                                                                                                                               ; DATA XREF: 0000:0311†o
                              update_bonus_timer:
                                                                       Z, loc_0_691
a, (bonus_timer)
                                                          jp
ld
                                                          and
                                                                                                                                               ; zero?
; no, skip
                                                                        NZ, loc_0_6A8
a, (unk_0_63B8)
                                                          jp
ld
                                                          and
0638 A7
0639 C0
063A 3A B0 62
063D 01 0A 00
                                                          ret
ld
                                                                        NZ
                                                                        a, (unk_0_62B0)
bc, #0xA
                                                          ld
0640
                              loc_0_640:
                                                                                                                                               ; CODE XREF: 0000:0642-j
                                                          sub
                                                          jp
ld
rlca
                                                                        NZ, loc_0_640
                                                                        a, b
                                                          rlca
                                                          rlca
                                                          rlca
rlca
ld
ld
                                                                                                                                               ; set initial bonus timer value
                                                                         (bonus_timer),
                                                                        hl, #bonus_graphic_tiles
de, #VRAM_start+0x65
a, #6
                                                                                                                                              ; screen position for bonus
; 6 columns of tiles to display
                                                          ld
                                                                                                                                               ; CODE XREF: 0000:0664 j
                              loc 0 655:
0655 DD 21 1D 00
0659 01 03 00
065C ED B0
                                                                       ix, #0x1D
bc, #3
                                                                                                                                               ; column inc
; 3 tiles to display
; display bonus tiles
; next column
                                                          1d
                                                          ld
ldir
065C ED B0
065E DD 19
0660 DD E5
0662 D1
0663 3D
0664 C2 55 06
0667 3A 8C 63
066A
                                                                        ix. de
                                                          add
                                                          push
pop
dec
                                                                        ix
de
                                                                                                                                               ; screen position
                                                                                                                                               ; done?
; no, loop
                                                          jp
ld
                                                                        NZ. loc 0 655
                                                                        a, (bonus_timer)
066A
                             loc 0 66A:
                                                                                                                                              ; CODE XREF: 0000:06B5-1
066A 4F
                                                          ld
066B E6 OF
066D 47
066E 79
                                                          and
ld
                                                                        #0xF
066D 47
066E 79
066F 0F
066F 0F
0670 0F
0671 0F
0673 E6 0F
0673 E 09
0678 3E 03
067A 32 89 06
067B 3E 03
067A 32 89 60
067B 3E 78
067B 3E 78
067B 3E 74
0687 3E 10
0688 9
                                                                                                                                              ; B=low nibble
                                                                        b, a
                                                          1d
                                                                        a, c
                                                          rrca
                                                          rrca
                                                          rrca
and
                                                                                                                                               ; C=high nibble
; skip if more than 9s left
                                                                        NZ, display_bonus_digits
                                                          jp
ld
                                                          ld
ld
ld
ld
                                                                         a, #3
(unk_0_6089), 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
                                                                                                                                               ; 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
0690 C9
0691
0691
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[†]p check_and_award_bonus+2C[†]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

 $hl, \#VRAM_start+0x383$

```
Page: 12
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
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
                                                hl, #VRAM_start+0x383
                                       ld
```

```
; number of lives ; screen location
     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
    071E F2 12
0720 44 13
0722 8F 13
0724 A1 13
0726 AA 13
0728 BB 13
072A 1E 14
072C 86 14
     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"
                                                                        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
                                                                         hl
0793 23
0794 34
0795 CD 74 08
0798 CD 53 0A
0798 3A 0F 60
079E FE 01
07AO CC EE 09
07A3 ED 5B 22 60
07A7 21 6C 75
07AA CD AD 07
07AD
                                                                         (hl)
clear_visible_area_and_sprites
                                                           call
                                                                         display_1UP
                                                           call
                                                                         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
07C3
07C3 CD 74 08
                                                                                                                                                ; DATA XREF: 0000:0752\dagger
                              cls_and_next_sequence
                                                                         clear visible_area_and_sprites
                                                           call
                                                                        hl, #main_sequencer
(hl)
07C6 21 0A 60
07C9 34
07CA C9
                                                          ld
                                                                                                                                                ; next sequence (6)
07CA C9
07CB
07CB
07CB
07CB
07CB 3A 8A 63
07CE FE 00
07D0 C2 2D 08
07D3 3E 60
07D5 32 8A 63
07D8 0E 5F
07DA
07DA
07DA
07DA FE 00
                                                           ret
                              title_screen_flash:
                                                                                                                                                ; DATA XREF: 0000:0754 o
                                                                         a, (unk_0_638A)
#0
                                                          ld
                                                           cp
jp
ld
                                                                         NZ, loc_0_82D
                                                                         a, #0x60;
(unk_0_638A), a
                                                           ld
                                                           ld
                                                                                                                                                ; CODE XREF: 0000:0838/j
                              loc_0_7DA:
cp
jp
ld
ld
                                                                         Z, loc_0_83B
hl, #palette_bank
(hl), #0
                                                          ld
rlc
jr
ld
                                                                         NC, loc_0_7EB (hl), #1
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
                                                           ld
                                                           rlc
                                                                         NC, loc_0_7F4 (hl), #1
                                                           jr
ld
07F4
07F4
07F4 32 8B 63
07F7 21 08 3D
                              loc_0_7F4:
                                                                                                                                               ; CODE XREF: 0000:07F01j
                                                                         (unk_0_638B),
                                                                        hl, #title_screen
                                                           ld
07FA
07FA
07FA
07FC
                                                                        a, #0xB0;
b, (h1)
                              display_donkey_
                                                        _kong_title:
                                                                                                                                                ; 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
                                                                         de
                                                                        loc_0_801
hl
                                                           djnz
                                                                                                                                                   loop
next entry
                                                                        a, (hl)
                                                                                                                                                   get entry byte done?
                                                           1d
                                                          cp
jp
ld
call
0809 C2 FA 07
080C 11 1E 03
080F CD 9F 30
                                                                         NZ, display_donkey_kong_title
de, #0x31E
queue_fg_vector_fn
de
                                                                                                                                                          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
                                                                         sub_0_3F24
                                                                         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
082D
082D 88 88 63
082D 3A 8B 63
0830 4F
0831 3A 8A 63
0834 3D 0835 32 8A 63
0838 C3 DA 07
                                                                                                                                               ; CODE XREF: 0000:07D01i
                              loc 0 82D:
                                                          ld
ld
                                                                         a, (unk_0_638B)
                                                                         a, (unk_0_638A)
                                                           ld
                                                                         (unk_0_638A), 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
                                                              hl, #unk_0_638A
(hl), #0
hl
                                                  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| j
; 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 28/11/2013, 10:46:00 PM
08BA CD 74 08
                                                    call
                                                                 clear_visible_area_and_sprites
08BD AF
08BE 32 07 60
08C1 11 0C 03
08C4 CD 9F 30
08C7 21 0A 60
08BD AF
                                                    xor
                                                    ld
ld
call
                                                                 (attract_mode_flag), a de, #0x30C queue_fg_vector_fn
                                                                                                                                ; clear attract mode flag
; print_message_0C
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: 0000:08B810
                                                                 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:
                                                    1d
                                                                 (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 28/11/2013, 10:46:00 PM
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
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
                                                          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 28/11/2013, 10:46:00 PM
 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),
                                                                                                                                                                                                                                                        ; palette bank 2
                                                                                                                             de, #draw_data_climb
sub_0_DA7
                                                                                                                                                                                                                                                       ; 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
                                                                                                                             a (unk_0_62AF), a hl, #dk_intro_jump_up_data (unk_0_63C2), hl hl, #dk_intro_jump_across_data (unk_0_63C4), hl a, #0x40; '@'
                                                                                                      ld
                                                                                                      ld
ld
                                                                                                      ld
ld
                                                                                                                             (a., #0x40 ; '@'
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, #kong_climbing_spr
copy_sprites_2_l1_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
 0AD7 AF
0AD8 32 0C 69
0ADB 21 8A 60
0ADE 36 01
0AE0 23
0AE1 36 03
0AE3 21 85 63
```

(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

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
                                                                                  πολ/Ε ; ' '
Z, loc_0_B1E
hl
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
                                                                   14
                                                                                  c, a
hl, #0x690B
0x38
                                                                   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, #kong_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
                                                                   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
                                                                                  sub_0_DA7
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
```

0C67 DD 77 20

```
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 71
0C2F 0C
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
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
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 A0 03
0C79 E1
0C7A 11 5F FF
                                                      de, #0xFF5F
```

```
0C7D 19
                                                         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 23 00

0CA4 23

0CA5 36 01

0CA7 3A 27 62

0CAA 9CA
                             init_and_draw_level:
                                                                                                                                            ; 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 1
                                                                      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
                                                                       Z, draw_elevator_level
                                                                      sub_0_D43
hl, #palette_bank
(hl), #1
a, #0xB
                                                         ld
ld
                                                                                                                                           ; select palette bank 3
                                                         ld
                                                                       (unk 0 6089), a
                                                                       de, #rivet_level_tilemap_data
                                                         14
0CC6
0CC6
0CC6 CD A7 0D
                             draw_level_tilemap:
                                                                                                                                            ; CODE XREF: 0000:0CDC/j
                                                                      sub_0_DA7
a, (level_type)
#4
                                                                                                                                            ; 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
                                                         call
                                                                                                                                            ; draw screen
                                                         ld.
                                                                                                                                            ; rivets?
; yes, call
                                                         ср
                                                                           draw_rivets
                                                         call
                                                         jp
                                                                       loc_0_3FA0
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
(unk_0_6089), a
                                                         ld
0CDC C3 C6 0C
0CDF
0CDF
                                                         jр
                                                                       draw_level_tilemap
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
OCEA 36 00
OCEA 3E 09
OCEC 32 89 60
                                                         ld
                                                         ld
                                                                       (unk_0_6089),
                                                         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
                                                                      sub_0_D27
a, #0xA
(unk_0_6089), a
de, #elevator_level_tilemap_data
                                                         call
ld
                                                         ld
                                                         ld
OCFD C3 C6 OC
                                                         jp
                                                                       draw_level_tilemap
0D00
0D00
                                                         SUBROUTINE
0D00
0D00

0D00

0D00

0D00 06 08

0D02 21 17 0D

0D05

0D05 3E B8

0D07 0F 02
                                                                                                                                               CODE XREF: 0000:0CCE↑p
                                                                      b, #8
hl, #rivet_loc_tbl
                                                         ld
ld
                                                                                                                                            ; 8 rivets
                                                                                                                                            ; CODE XREF: draw_rivets+14|j
; top of rivet tile
; 2 tiles/rivet (vertical)
                             loc_0_D05:
                                                                       a, #0xB8 ; '©
                                                         ld
        0E 02
5E
23
56
0D07
                                                         ld
ld
0D07
0D09
0D0A
0D0B
                                                                           (hl)
                                                         inc
ld
                                                                       d, (hl)
0D0C 23
0D0D
0D0D
                                                         inc
                                                                       hl
                                                                                                                                            ; get VRAM location
                             loc_0_D0D:
                                                                                                                                               CODE XREF: draw_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
                                                         djnz
                                                                       loc_0_D05
                                                                                                                                            ; loop through 8 rivets
                                                         ret
                             ; End of function draw_rivets
0D16
0D16
0D16
0D17 CA 76
                                                                                                                                            ; DATA XREF: draw_rivets+2\u00f10
                             rivet_loc_tbl: .dw VRAM_start+0x2CA
                                                                                                                                            ; Rivets level, location of rivets
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
```

```
.dw VRAM_start+0x134
                                                                                         .dw VRAM start+0x139
                                                                                        SUBROUTINE
                                              sub_0_D27:
                                                                                                                                                                                                                         ; CODE XREF: 0000:0CF21p
                                                                                                              hl, #VRAM_start+0x30D
                                                                                        call
ld
                                                                                                              sub_0_D30
                                              ונע_ט טנע ט ld hl, #VRAM_start+0x20D ; End of function sub_0_D27
 0D2D
0D2D
0D30
SUBROUTINE ...
                                             sub 0 D30:
                                                                                                                                                                                                                         ; CODE XREF: sub 0 D27+31p
                                                                                        ld
                                                                                                             b, #0x11
                                             loc_0_D32:
                                                                                                                                                                                                                         ; CODE XREF: sub_0_D30+5|j
                                                                                                               (hl), #0xFD; '2'
                                                                                         1d
                                                                                                             hl
loc_0_D32
                                                                                        djnz
ld
                                                                                                             de, #0xF
hl, de
b, #0x11
                                                                                         add
                                                                                         ld
                                                                                                                                                                                                                        ; CODE XREF: sub 0 D30+10-j
                                             loc 0 D3D:
                                                                                                              (hl), #0xFC; '3'
                                                                                         14
                                                                                        inc
djnz
                                                                                                              hl
loc_0_D3D
                                                                                        ret
0D42
0D42
0D43
0D43
                                              ; End of function sub_0_D30
0D43

0D43

0D43

0D43

0D43

21 87 76

0D46 CD 4C 0D

0D49

0D49

0D40

0D40

0D40

0D4C

0D4C
                                                                                       SUBROUTINE
                                              sub_0_D43:
                                                                                                                                                                                                                         ; CODE XREF: 0000:0CB6†p
                                                                                                             hl. #VRAM start+0x287
                                              - ..., #VKAM_start+0x287
call sub_0_D4C
ld h1, #VRAM_start+0x147
; End of function sub_0_D43
                                                                                        ld
                                                                                     SUBROUTINE
                                                                                                                                                                                                                         ; CODE XREF: sub_0_D43+3\p
                                             sub_0_D4C:
                                                                                         ld
                                                                                                             b, #4
 0D4E
0D4E 36 FD
0D50 23
                                             loc_0_D4E:
                                                                                                                                                                                                                         ; CODE XREF: sub_0_D4C+5 j
                                                                                         ld
                                                                                                               (hl), #0xFD; '2'
                                                                                         inc
                                                                                                              hl
0D51 10 FB
0D53 11 1C 00
0D56 19
0D57 06 04
                                                                                                              loc_0_D4E
                                                                                        djnz
ld
add
                                                                                                              de, #0x1C
                                                                                                              b, #4
                                                                                         ld
0D57 06 04

0D59

0D59 36 FC

0D5B 23

0D5C 10 FB

0D5E C9

0D5E
                                              loc_0_D59:
                                                                                                                                                                                                                        ; CODE XREF: sub_0_D4C+10|j
                                                                                         ld
                                                                                                               (hl), #0xFC; '3'
                                                                                                              loc 0 D59
                                                                                        dinz
                                              ret; End of function sub_0_D4C
 0D5E
0D5E

0D5F

0D5F

0D5F CD 56 0F

0D62 CD 41 24

0D65 21 09 60

0D68 36 40

0D6A 23

0D6B 34

0D6C 21 5C 38

0D6F CD 4E 00

0D72 11 00 69
                                              loc_0_D5F:
                                                                                                                                                                                                                         ; CODE XREF: 0000:3FA3|j
                                                                                                             loc_0_F56
sub_0_2441
hl, #eight_bit_countdown
(hl), #0x40; '@'
                                                                                        call
                                                                                        call
ld
ld
                                                                                        inc
inc
ld
call
                                                                                                              hl
                                                                                                             (hl)
hl, #kong_normal_spr
copy_sprites_2_11_data
UD6F CD 4E 00

0D72 11 00 69

0D75 01 08 00

0D78 ED B0

0D7A 3A 27 62

0D7D FE 04

0D7F 28 0A

0D81 0F
                                                                                        ld
ld
ldir
                                                                                                                                                                                                                         ; sprites 0,1
; 8 bytes to copy
; copy pauline sprite
                                                                                                             de, #soft_sprite_ram
bc, #8
                                                                                                             a, (level_type)
#4
                                                                                         ld
                                                                                         cp
jr
                                                                                                                                                                                                                         ; rivets?
; yes, skip
                                                                                                              Z, loc_0_D8B
                                                                                         rrca
0D81 OF

0D82 OF

0D83 D8

0D84 21 OB 69

0D87 OE FC

0D89 FF
                                                                                                                                                                                                                          ; level 2/3?
                                                                                         rrca
                                                                                         ret
ld
                                                                                                                                                                                                                              yes, return sprite #2, x coord
                                                                                                              hl, #soft_sprite_ram+0xB
                                                                                                              c, #0xFC;
0x38
                                                                                         ld
                                                                                                                                                                                                                          ; subtract 4 from x coord for 10 sprites
                                                                                         rst
0D8A C9
0D8B
0D8B
0D8B
0D8B 21 08 69
0D8E 0E 44
0D90 FF
                                                                                                                                                                                                                         ; CODE XREF: 0000:0D7F<sup>†</sup>j; sprite #2, xcoord
                                             loc 0 D8B:
                                                                                                             hl, #soft_sprite_ram+8
c, #68
0x38
                                                                                         ld
                                                                                         ld
; add 68 to x coord for 10 sprites
                                                                                         rst
                                                                                        ld
ld
ld
                                                                                                             de, #4
bc, #0x210
h1, #soft_sprite_ram
                                                                                                                                                                                                                         ; sprite #0, y coord
                                                                                        call
ld
                                                                                                               loc_0_3D
                                                                                                             bc, #0x2F8
hl, #soft_sprite_ram+3
                                                                                         ld
                                                                                                                                                                                                                         ; sprite #0, x coord
                                                                                         call
                                                                                                              loc 0 3D
                                                                                         ret
                                                                                         SUBROUTINE
                                                                                                                                                                                                                              CODE XREF: 0000:0A95<sup>p</sup>
0000:0B4B<sup>p</sup> ...
get flag/tile
                                              sub_0_DA7:
 0DA7
                                                                                         ld
                                                                                                                      (de)
 0DA7
0DA8 32 B3 63
0DAB FE AA
0DAD C8
                                                                                        ld
cp
                                                                                                               (unk_0_63B3), a
#0xAA; '¬'
                                                                                                                                                                                                                              store for later
done?
yes, return
next table address
                                                                                         ret
ODAE 13
ODAF 1A
                                                                                                              de
                                                                                                              a, (de)
                                                                                         ld
                                                                                                                                                                                                                              get byte
```

; CODE XREF: sub_0_DA7+E5|;
; sub_0_DA7+125|; ...

hl, (unk_0_63AB)

(unk 0 63B5)

Z, loc_0_E78 a, (unk_0_63B5) #0xF0; '-'

Z, loc_0_E78 #0x10

a, (unk (hl), a

hl a, l

ld

ld

ld inc ld

and

ср

loc_0_E62:

0E62

0E65 77

0E62 0E62 3A B5 63 0E62

0E68 E6 1F 0E6A CA 78 0E 0E6D 3A B5 63 0E70 FE F0

0E72 CA 78 0E 0E75 D6 10

```
0E77 77
                                                                             (hl), a
                                                              ld
0E78
0E78
0E78 01 1F 00
0E78
                                                                                                                                                          ; CODE XREF: sub_0_DA7+C3<sup>†</sup>j
; sub_0_DA7+CB<sup>†</sup>j
                               loc_0_E78:
                                                                             bc, #0x1F
hl, bc
0E78
0E7B 09
0E7C 3A B1 63
0E7F D6 08
0E81 DA CF 0E
                                                               add
                                                                              a, (unk_0_63B1)
                                                               ld
                                                               sub
                                                                                   loc_0_ECF
                                                               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
                                                                              (unk_0_63B1), a
a, (unk_0_63B2)
#0
                                                               ld
                                                               ср
                                                              jp
ld
ld
                                                                              Z, loc_0_E62
                                                                             a, (unk_ (hl), a
                                                                                    (unk_0_63B5)
0E92 77
0E93 23
0E94 7D
                                                                             hl
a, l
#0x1F
                                                               inc
ld
0E94 7D
0E95 E6 1F
0E97 CA AO 0E
0E9A 3A B5 63
0E9D D6 10
                                                               and
jp
ld
                                                                              Z, loc_0_EA0
a, (unk_0_63B5)
#0x10
                                                               sub
0E9F 77
0EA0
0EA0
                                                               ld
                                                                              (hl), a
                                loc 0 EA0:
                                                                                                                                                        ; CODE XREF: sub 0 DA7+F0 j
0EA0 01 1F 00
                                                                             bc, #0x1F
h1, bc
a, (unk_0_63B1)
#8
                                                              ld
0EA0 01 1F 00

0EA3 09

0EA4 3A B1 63

0EA7 D6 08

0EA9 DA CF 0E

0EAC 32 B1 63

0EB4 3A B2 63

0EB2 CB 7F
                                                              add
ld
                                                               sub
                                                              jp
ld
ld
bit
                                                                                  loc 0 ECF
                                                                             (unk_0_63B1), a
a, (unk_0_63B2)
7, a
                                                                             NZ, loc_0_ED3
a, (unk_0_63B5)
0EB4 C2 D3 0E
0EB7 3A B5 63
0EBA 3C
0EBB 32 B5 63
                                                              jp
ld
                                                               inc
ld
                                                                              (unk_0_63B5), a
0EBB 52 B3 03
0EBE FE F8
0EC0 C2 C9 0E
0EC3 23
                                                               cp
jp
                                                                              #0xF8; '°'
NZ, loc_0_EC9
                                                                              hl
0EC3 23
0EC4 3E F0
0EC6 32 B5 63
0EC9
0EC9 7D
                                                                                  #0xF0 ; '-'
                                                               ld
                                                               ld
                                                                              (unk_0_63B5), a
                                                                                                                                                         ; CODE XREF: sub_0_DA7+119 j
                                loc 0 EC9:
                                                               ld
0ECA E6 1F
0ECC C2 62 0E
0ECF
                                                                             #0x1F
NZ, loc_0_E62
                                                               jр
                                                                                                                                                         ; CODE XREF: sub_0_DA7+DA<sup>†</sup> j ; sub_0_DA7+102<sup>†</sup> j ...
ORCE
                                loc 0 ECF:
0ECF 13
0ECF
0ED0 C3 A7 0D
                                                                              sub 0 DA7
0ED3
0ED3
0ED3
                                                                                                                                                         ; CODE XREF: sub_0_DA7+10Dfj
                                loc_0_ED3:
0ED3 3A B5 63
0ED6 3D
0ED7 32 B5 63
0EDA FE F0
                                                               1d
                                                                              a, (unk_0_63B5)
                                                               dec
ld
                                                                              (unk_0_63B5), a
                                                               ср
                                                                               #0xF0
OEDA FE FO

OEDC F2 E5 OE

OEDF 2B

OEEO 3E F7

OEE2 32 B5 63

OEE5
                                                               jp
dec
                                                                              P, loc_0_EE5
                                                                             hl
a, #0xF7; ','
                                                                             (unk_0_63B5), a
                                                               ld
0EE5
0EE5 C3 62 0E
                                loc_0_EE5:
                                                                                                                                                         ; CODE XREF: sub_0_DA7+135 j
                                                                             loc_0_E62
                                                               jр
0EE8
0EE8
0EE8
0EE8 3A B3 63
                                loc_0_EE8:
                                                                                                                                                          ; CODE XREF: sub_0_DA7+AD^j
                                                                             a, (unk_0_63B3)
#3
                                                               ld
OEE8 3A B3 63
OEEB FE 03
OEED C2 1B OF
OEF0 2A AB 63
OEF3 3E B3
OEF5 77
OEF6 01 20 00
OEF9 09
OEFA 3A B1 63
                                                              cp
jp
ld
ld
                                                                             NZ, loc_0_F1B
hl, (unk_0_63AB)
a, #0xB3; '|'
                                                                            a, #0xB3,
(h1), a
bc, #0x20;
h1, bc
a, (unk_0_63B1)
                                                              ld
ld
add
                                                               ld
OEFA 3A B1 63
OEFD D6 10
OEFF
OEFF
OEFF DA 14 0F
OF02 32 B1 63
OF05 3E B1
OF07 77
                                                               sub
                                                                                                                                                        ; CODE XREF: sub_0_DA7+16A|j
                                loc_0_EFF:
                                                              jp
ld
ld
ld
                                                                                  loc 0 F14
                                                                             C, loc_0_F14
(unk_0_63B1), a
a, #0xB1; '
'
(h1), a
bc, #0x20; '
h1, bc
a, (unk_0_63B1)
#8
0F08 01 20 00
                                                               ld
0F0B 09
0F0C 3A B1 63
0F0F D6 08
0F11 C3 FF 0E
                                                               add
ld
                                                               sub
                                                                              loc 0 EFF
                                                               qŗ
0F14
0F14
0F14
                                loc_0_F14:
                                                                                                                                                         ; CODE XREF: sub_0_DA7+158 j
0F14 3E B2
0F16 77
0F17 13
0F18 C3 A7 0D
                                                               1d
                                                                              a, #0xB2; '|| '
(h1), a
                                                               ld
                                                                              sub 0 DA7
                                                               αĖ
                                loc_0_F1B:
                                                                                                                                                         ; CODE XREF: sub_0_DA7+146 j
0F1B 3A B3 63
                                                               ld
                                                                              a, (unk_0_63B3)
#7
0F1B 3A B3 63
0F1E FE 07
0F20 F2 CF 0E
0F23 FE 04
0F25 CA 4C 0F
0F28 FE 05
0F2A CA 51 0F
0F2D 3E FE
0F2F
                                                               cp
jp
                                                                              P, loc_0_ECF
                                                              cp
jp
cp
jp
ld
                                                                              Z, erase_straight_girders
                                                                             #5
Z, loc_0_F51
a, #0xFE; '\| '\| '
0F2F
0F2F 32 B5 63
                                loc_0_F2F:
                                                                                                                                                         ; CODE XREF: sub_0_DA7+1A7|;
; sub_0_DA7+1AC|;
                                                                              (unk_0_63B5)
0F2F
0F32 2A AB 63
0F35
0F35
                                                               ld
                                                                              hl, (unk_0_63AB)
                                                                                                                                                         ; CODE XREF: sub_0_DA7+19E j
                                loc_0_F35:
0F35 3A B5 63
0F38 77
                                                                              a, (unk_0_63B5)
(hl), a
                                                               1d
```

```
bc, #0x20 ; ' '
0F39 01 20 00
                                                     ld
                                                                h1, bc
a, (unk_0_63B1)
#8
0F3C 09
0F3D 3A B1 63
0F40 D6 08
0F42 32 B1 63
0F45 D2 35 0F
0F48 13
0F49 C3 A7 0D
0F4C
0F3C 09
                                                     add
                                                    ld
                                                                (unk_0_63B1), a
NC, loc_0_F35
de
                                                     sub
ld
                                                     jp
inc
                                                                 sub_0_DA7
                                                     jр
0F4C
0F4C 3E E0
0F4E C3 2F 0F
                           erase_straight_girders:
                                                                                                                                ; CODE XREF: sub_0_DA7+17E j
                                                                 a, #0xE0 ; 'Ó'
loc_0_F2F
                                                     jр
0F4E C3 2F 0F
0F51
0F51
0F51
0F51 3E B0
0F53 C3 2F 0F
0F53
0F53
                           loc_0_F51:
                                                                                                                                ; CODE XREF: sub_0_DA7+183 j
                                                    ld
                                                                 a. #0xB0 ; '
                           jp loc_0_F2F
; End of function sub_0_DA7
0F56
loc_0_F56:
                                                                                                                                 ; CODE XREF: 0000:0D5F1p
                                                                 b, #0x27 ; '''
                                                     ld
                                                                 hl, #mario_alive_flag
                                                     ld
                           loc_0_F5C:
                                                                                                                                ; CODE XREF: 0000:0F5E-i
                                                     ld
                                                                 (hl), a
                                                    inc
djnz
ld
                                                                 loc_0_F5C
                                                                 c, #0x11
d, #0x80 ; 'Ç'
h1, #unk_0_6280
                                                     ld
                                                                                                                                ; CODE XREF: 0000:0F6D-i
                          loc 0 F67:
                                                    ld
                                                                 b, d
                          loc_0_F68:
                                                                                                                                ; CODE XREF: 0000:0F6A|j
                                                                 (hl), a
                                                    ld
                                                    inc
djnz
                                                                 loc_0_F68
                                                    dec
jr
ld
ld
                                                                 NZ, loc_0_F67
                                                                hl, #level_init_data
de, #unk_0_6280
bc, #0x40; '@'
                                                     ld
                                                    ldir
ld
ld
                                                                 a, (level)
b, a
                                                     and
                                                    rla
and
rla
                                                                 a
                                                    and
rla
add
add
                                                                 а
                                                                a, b
a, b
a, #0x28; '('
#0x51; 'Q'
C, loc_0_F8E
0F85 60
0F86 C6 28
0F88 FE 51
0F8A 38 02
0F8C 3E 50
0F8E
                                                     add
                                                     cp
jr
ld
                                                                 a, #0x50;
loc_0_F8E:
                                                                                                                                ; CODE XREF: 0000:0F8A|j
                                                                 hl, #unk_0_62B0
                                                                 b, #3
                                                     ld
                           loc_0_F93:
                                                                                                                                ; CODE XREF: 0000:0F95|j
                                                                 (hl), a
                                                     ld
                                                    djnz
add
                                                                 loc_0_F93
                                                                 a, a
b, a
ld
                                                                 a, #0xDC; '
                                                     1d
                                                     sub
                                                                  #0x28 ; '('
                                                     ср
                                                                NC, loc_0_FA2
a, #0x28; '(
                                                     jr
ld
                          loc_0_FA2:
                                                                                                                                ; CODE XREF: 0000:0F9E↑j
                                                                 (hl), a
                                                     ld
                                                     inc
ld
ld
                                                                 (h1), a
h1, #unk_0_6209
(h1), #4
                                                     ld
                                                     inc
                                                                1
(h1), #8
a, (level_type)
c, a
2, a
NZ, loc_0_FCB
h1, #soft_sprite_ram+0x100
a, #0x4F; 'O'
b, #3
                                                     ld
ld
                                                    bit
jr
ld
                                                                                                                                ; sprite #64, y coord
0FB5 21 00
0FB8 3E 4F
0FB2 06 03
0FBC
0FBC 77
0FBD 2C
0FBE 36 3A
0FC0 2C
0FC1 36 0F
0FC3 2C
0FC4 36 1C
0FC5 2C
0FC7 C6 10
0FC9 10 F1
                                                     ld
                                                                                                                                ; CODE XREF: 0000:0FC9|j
                          loc 0 FBC:
                                                    ld
inc
ld
                                                                 (hl), a
                                                                 (hl), #0x3A; ':'
                                                     inc
                                                    ld
inc
                                                                 (hl), #0xF
                                                                 (hl), #0x18
                                                     inc
                                                    add
djnz
                                                                    #0~10
                                                                 loc_0_FBC
0FCB
0FCB
                          loc 0 FCB:
                                                                                                                                 ; CODE XREF: 0000:0FB31i
OFCB 79
OFCC EF
                                                    ld
rst
                                                                                                                                 ; go!
0FCC
0FCC
0FCD 00 00
0FCF D7 0F
0FD1 1F 10
0FD3 87 10
                                                    .dw RESET
.dw init_11_girder
.dw init_12_cement
.dw init_13_elevator
.dw init_14_rivets
                                                                                                                                 ; Jump table
0FD5 31 11
```

```
0FD7
0FD7
0FD7
0FD7 21 DC 3D
0FDA 11 A8 69
0FDD 01 10 00
 0FD7
                                       init_l1_girder:
                                                                                                                                                                                         ; DATA XREF: 0000:0FCF o
                                                                                             hl, #top_barrel_spr
de, #soft_sprite_ram+0xA8
                                                                            ld
OFDA 11 A8 69
OFDD 01 10 00
OFE0 ED B0
OFE2 21 EC 3D
OFE5 11 07 64
OFE8 0E 1C
OFEA 06 05
OFEC CD 2A 12
OFEF 21 F4 3D
OFEE 2C F4 1
                                                                            ld
                                                                                              bc, #0x10
                                                                            ldir
                                                                                             hl, #fireball_spr
de, #unk_0_6407
c, #0x1C
b, #5
                                                                            ld
ld
                                                                            ld
                                                                           ld
call
ld
                                                                                              sub_0_122A
                                                                                              hl, #girders_extra_spr
0FF2 CD FA 11
0FF5 21 00 3E
0FF8 11 FC 69
0FFB 01 04 00
                                                                            call
ld
ld
                                                                                             sub_0_11FA
hl, #girder_oil_barrel_spr
de, #soft_sprite_ram+0xFC
                                                                            ld
                                                                                              bc. #4
0FFE ED B0
1000 21 OC 3E
1003 CD A6 11
                                                                            ldir
                                                                                             hl, #girder_hammer_locs
sub_0_11A6
                                                                            call
 1006
 1006
                                       loc_0_1006:
 1006
1006 21 1B 10
1009 11 07 67
100C 01 1C 08
                                                                                             hl, #cement_unknown_spr
de, #unk_0_6707
bc, #0x81C
                                                                            ld
                                                                            ld
 100C 01 1C 08
100F CD 2A 12
1012 11 07 68
1015 06 02
1017 CD 2A 12
101A C9
                                                                            call
ld
                                                                                             sub_0_122A
de, #unk_0_6807
b, #2
                                                                            ld
                                                                                              sub_0_122A
                                                                            call
                                                                            ret
 101A ; —
101B 00 00 02 02 cement_unknown_spr:.db 0, 0, 2, 2
                                                                                                                                                                                         ; DATA XREF: 0000:1006↑o
101F
101F
101F
101F
101F 21 EC 3D
1022 11 07 64
1025 01 1C 05
1028 CD 2A 12
1028 CD 2A 12
1028 CD 86 11
1022 21 18 3E
1031 11 A7 65
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
104F 21 04 3E
1055 01 04 00
1055 21 FC 69
1055 01 04 00
                                       init_12_cement:
                                                                                                                                                                                          ; DATA XREF: 0000:0FD1\u00e10
                                                                                             hl, #fireball_spr
                                                                            ld
                                                                                              de, #unk_0_6407
bc, #0x51C
sub_0_122A
                                                                           ld
ld
                                                                            call
                                                                           call
ld
ld
ld
                                                                                             sub_0_1186
hl, #cement_pie_spr
de, #unk_0_65A7
                                                                                              bc, #0x60C
sub_0_122A
                                                                            call
                                                                            ld
ld
                                                                                              ix, #unk_0_65A0
hl, #soft_sprite_ram+0xB8
                                                                                             de, #0x10
b, #6
set_B_sprites_data
h1, #cement_extra_spr
                                                                            ld
ld
                                                                            call
ld
                                                                            call
                                                                                              sub_0_11FA
                                                                            ld
ld
ld
                                                                                              hl, #cement_oil_barrel_spr
de, #soft_sprite_ram+0xFC
                                                                                              bc, #4
 1058 ED B0
105A 21 1C 3E
105D 11 44 69
1060 01 08 00
                                                                           ldir
ld
ld
                                                                                             hl, #cement_ladder_spr
de, #soft_sprite_ram+0x44
                                                                            ld
                                                                                              bc, #8
24 3E

36 11 E4 69

106B 01 18 00

106E ED B0

1070 21 10

1073 CT
 1063 ED B0
1065 21 24
1068 11 E4
106B 01 18
                                                                           ldir
ld
ld
ld
                                                                                             hl, #cement_conveyer_spr
de, #soft_sprite_ram+0xE4
bc, #0x18
                                                                            ldir
                          3E
11
3E
                                                                           ld
call
                                                                                             hl, #cement_hammer_locs
sub_0_11A6
                                                                                             hl, #cement_obj_spr
de, #soft_sprite_ram+0x10C
 1076 21 3C
1079 11 0C
107C 01 0C
107F ED B0
                                                                           ld
ld
ld
ldir
107F ED B0
1081 3E 01
1083 32 B9 62
1086 C9
1087
1087
1087
1087 21 EC 3D
1088 11 07 64
                                                                                              a, #1
(unk_0_62B9), a
                                                                            ld
                                                                           ld
ret
                                       init_13_elevator:
                                                                                                                                                                                         ; DATA XREF: 0000:0FD31o
1087 21 EC 3D 108A 11 07 64 108D 01 1C 05 1090 CD 2A 12 1093 CD 86 11 1096 21 00 66 1099 11 10 00 109C 3E 01 109E 06 06 10A0
                                                                                             hl, #fireball_spr
de, #unk_0_6407
bc, #0x51C
                                                                            ld
                                                                            ld
                                                                           ld
call
                                                                                              sub_0_122A
sub_0_1186
                                                                            call
                                                                                             hl, #unk_0_6600
de, #0x10
                                                                            ld
                                                                            ld
                                                                           ld
ld
                                                                                             a, #1
b, #6
 10A0
10A0
10A0
10A0 77
10A1 19
10A2 10 FC
10A4 0E 02
10A6 3E 08
10A8
                                       loc_0_10A0:
                                                                                                                                                                                         ; CODE XREF: 0000:10A2-i
                                                                                              (hl),
                                                                                              hl, de
loc_0_10A0
                                                                            add
djnz
                                                                            ld
                                                                            ld
 10A8
                                       loc_0_10A8:
                                                                                                                                                                                         ; CODE XREF: 0000:10B4-i
 10A8 06 03
10AA 21 0D 66
10AD
                                                                                             b, #3
hl, #unk_0_660D
                                                                           ld
 10AD
10AD 77
10AE 19
                                       loc_0_10AD:
                                                                                                                                                                                         ; CODE XREF: 0000:10AF-j
                                                                           ld
add
                                                                                              (hl), a
hl, de
loc_0_10AD
10AE 19
10AF 10 FC
10B1 3E 08
10B3 0D
10B4 C2 A8 10
10B7 21 64 3E
10BA 11 03 66
10BD 01 0E 06
10C0 CD EC 11
10C3 21 60 3E
10C6 11 07 66
10C9 01 0C 06
10CC CD 2A 12
10CF DD 21 00 66
10D3 21 58 69
10D6 06 06
10D8 11 10 00
                                                                            djnz
                                                                           ld
dec
                                                                                              a, #8
                                                                                              NZ, loc_0_10A8
                                                                            jp
ld
                                                                                              hl, #elevator_spr_xy
                                                                            ld
ld
                                                                                             de, #unk_0_6603
bc, #0x60E
                                                                                             sub_0_11EC
hl, #elevator_spr
de, #unk_0_6607
                                                                            call
                                                                            ld
ld
                                                                            call
                                                                                              sub_0_122A
                                                                            ld
ld
                                                                                             ix, #unk_0_6600
hl, #soft_sprite_ram+0x58
b, #6
                                                                            ld
                                                                                                       #0×10
 10D8
                                                                            1d
 10DB CD D3 11
                                                                            call
                                                                                              set_B_sprites_data
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
                                                                                       hl, #elevator_obj_spr
de, #soft_sprite_ram+0x10C
bc, #0xC
   10DE 21 48 3E
            11 0C 6A
01 0C 00
   10E1
                                                                       ld
 10E4 01 0C 00
10E7 ED B0
10E9 DD 21 00 64
10ED DD 36 00 01
10F1 DD 36 05 80
10F5 DD 36 05 80
10FD DD 36 05 80
10FD DD 36 05 80
10FD DD 36 0E 88
10FD DD 36 23 EB
110D DD 36 25 EB
110D DD 36 25 60
1111 DD 36 2F 60
1111 DD 36 2F 60
1111 TO 69
1118 21 21 11
111B D1 10 00
   10E4
10E7
10E9
                                                                       ld
ldir
ld
                                                                                        ix, #unk_0_6400
                                                                                                                                                                          ; fireball character data
                                                                                      ix, #unk_0_6400
0(ix), #1
3(ix), #0x58; 'X'
0xE(ix), #0x58; 'X'
0xE(ix), #0x80; 'C'
0xF(ix), #0x80; 'C'
0x20(ix), #1
0x23(ix), #0xEB; 'Û'
0x25(ix), #0xEB; 'Û'
0x25(ix), #0x60; 'C'
de, #soft_sprite_ram+0x70
h1, #elevator_cap_spr
bc, #0x10
                                                                       ld
ld
ld
ld
ld
ld
ld
                                                                       ld
ld
ld
ld
  1118 01 10
111E ED B0
1120 C9
                                                                       1d
                                                                                        bc, #0x10
                                                                       ldir
                                                                       ret
  1120 ; 121 37 45 0F 60+elevator_cap_spr:.db 0x37, 0x45, 0xF, 0x60, 0x37, 0x45, 0x8F, 0xF7, 0x77 1121 37 45 0F 60+ .db 0x45, 0xF, 0x60, 0x77, 0x45, 0x8F, 0xF7 ; DATA XREF: 0000:1118†0 1121 77 45 0F 60+ .db 0x45, 0xF, 0x60, 0x77, 0x45, 0x8F, 0xF7 1131 ;
  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 0D
                                     init_14_rivets:
                                                                                                                                                                          ; DATA XREF: 0000:0FD510
                                                                                       hl, #fireball_rivet_spr
                                                                                       hl, #fireball_rivet_spr

de, #unk_0_6407

bc, #0x51C

sub_0_122A

hl, #rivet_hammer_locs

sub_0_11A6

hl, #rivit_obj_spr

de, #soft_sprite_ram+0x10C

be #0xC
                                                                       14
                                                                       ld
                                                                      call
ld
                                                                       call
ld
ld
  1149 01 0C 00
114C ED B0
114E 21 82 11
1151 11 A3 64
1157 0D EC 11
115A 21 7E 11
115D 11 A7 64
1160 01 1C 02
1163 CD 2A 12
1166 DD 21 A0
116A DD 36 00
116E DD 36 20
1172 21 50 69
1175 06 02
1177 11 20 00
                                                                       ld
                                                                       ldir
ld
ld
                                                                                       hl, #rivet_unknown_spr2
de, #unk_0_64A3
                                                                       ld
                                                                                               #0x21E
                                                                       call
ld
ld
                                                                                       sub_0_11EC
hl, #rivet_unknown_sprl
de, #unk_0_64A7
bc, #0x21C
                                                                       ld
                                                                                       sub_0_122A
ix, #unk_0_64A0
0(ix), #1
0x20(ix), #1
                                                                       call
ld
                                                                       ld
ld
                                                                                       hl, #soft_sprite
b, #2
de, #0x20;; ''
                                                                       ld
ld
                                                                                                #soft_sprite_ram+0x50
                                                                       ld
  117A CD D3 11
117D C9
117D
                                                                       call
ret
                                                                                        set_B_sprites_data
   117E 3F 0C 08 08 rivet_unknown_spr1:.db 0x3F, 0xC, 8, 8
                                                                                                                                                                              DATA XREF: 0000:115A o
                                                                                                                                                                              Rivets level? Unknown
DATA XREF: 0000:114E o
                                                                                                                                                                                                                            sprites?
   1182 73 50 8D 50 rivet_unknown_spr2:.db 0x73, 0x50, 0x8D, 0x50
                                    ; SUBROUTINE
   1186
                                                                                                                                                                           ; CODE XREF: 0000:102B<sup>p</sup>; 0000:1093<sup>p</sup>
                                    sub 0 1186:
1186 21 A2 -

1186

1189 11 07 65

118C 01 0C 0A

118F CD 2A 12

1192 DD 21 00 65

1196 21 80 69

1199 06 0A

1198 11 10 00
   1186 21 A2 11
                                                                                       hl, #elevator_bouncing_spr
de, #unk_0_6507
                                                                       ld
ld
                                                                                       bc, #0xA0C
sub_0_122A
                                                                       ld
                                                                       call
ld
ld
                                                                                       ix, #unk_0_6500
hl, #soft_sprite_ram+0x80
                                                                       ld
                                                                                        b, #0xA
  119B 11 10 00
119E CD D3 11
11A1 C9
                                                                                       de, #0x10
set_B_sprites_data
                                                                       ld
call
                                                                       ret
  ; DATA XREF: sub_0_1186 o
   11A6
   11A6
11A6
                                                                    SUBROUTINE
   11A6
   11A6
11A6 11 83 66
11A6
                                                                                                                                                                          ; CODE XREF: 0000:1003\p; 0000:1073\p ...
                                     sub_0_11A6:
 11A6
11A9 01 0E 02
11AC CD EC 11
11AF 21 08 3E
11B2 11 87 66
11B5 01 0C 02
11B8 CD 2A 12
11BB DD 21 80 66
11BF DD 36 00 01
11C3 DD 36 10 01
11C7 21 18 6A
11CA 06 02
11CC 11 10 00
11CF CD D3 11
                                                                                        de, #unk_0_6683
                                                                       ld
                                                                       ld
                                                                                       bc.
                                                                                       sub_0_11EC
h1, #hammer_pickup_spr
de, #unk_0_6687
bc, #0x20C
                                                                       call
ld
                                                                       ld
ld
                                                                       call
ld
ld
                                                                                        sub_0_122A
                                                                                       ix, #unk_0_6680
0(ix), #1
0x10(ix), #1
                                                                       ld
ld
ld
                                                                                                #soft_sprite_ram+0x118
                                                                                                                                                                      ; location of hammers in sprite ram
                                                                                       de, #0x10
                                                                       ld
  11CF CD D3 11
11D2 C9
11D2
                                     call set_1
ret
; End of function sub_0_11A6
                                                                                        set_B_sprites_data
   11D2
  11D3
11D3
11D3
                                                         SUBROUTINE
  11D3
11D3
11D3 DD 7E 03
                                                                                                                                                                           ; CODE XREF: 0000:1046<sup>p</sup>; 0000:10DB<sup>p</sup>...
                                                                                       a, 3(ix)
(hl), a
   11D3
11D6 77
                                                                                                                                                                           ; set sprite X
                                                                       ld
                                                                                       1
a, 7(ix)
   11D7 2C
11D8 DD 7E 07
                                                                                       a, 7(ix
(hl), a
   11DB
                                                                       ld
inc
                                                                                                                                                                          ; set sprite tile
                                                                                        a, 8(ix) (hl), a
   11DD DD 7E 08
                                                                                                                                                                          ; set sprite vflip/palette
   11E0
                                                                       ld
```

a, 5(ix)

11E2 DD 7E 05

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
 11E5 77
                                                                                                                                      (hl), a
                                                                                                            ld
                                                                                                                                                                                                                                                                       ; set sprite Y
 11E6
                                                                                                            inc
                                                                                                                                     ix, de
set_B_sprites_data
11E0 2C
11E7 DD 19
11E9 10 E8
11EB C9
                                                                                                            add
                                                                                                                                                                                                                                                                      ; next sprite data address
                                                                                                            djnz
                                                                                                            ret
                                                        ; End of function set_B_sprites_data
 11EB
11EB
11EC
11EC
                                                        ; SUBROUTINE
11EC
11EC
11EC
11EC 7E
                                                                                                                                                                                                                                                                      ; CODE XREF: 0000:10C0\p; 0000:1157\p ...
                                                       sub_0_11EC:
11EC
11ED 12
11EE 23
11EF 1C
                                                                                                           ld
ld
                                                                                                                                     a, (hl)
(de), a
hl
                                                                                                            inc
                                                                                                                                     e
e
a, (hl)
(de), a
11EF 1C
11F0 1C
11F1 7E
11F2 12
11F3 23
11F4 7B
11F5 81
11F6 5F
11F7 10
11F9 C9
11F9
11F9
                                                                                                            inc
                                                                                                            ld
ld
                                                                                                            inc
                                                                                                                                     hl
                                                                                                                                     a, e
a, c
                                                                                                            ld
                                                                                                            ld
                10 F3
                                                                                                                                     sub_0_11EC
                                                                                                            djnz
                                                       ret
; End of function sub_0_11EC
 11FA
11FA
11FA
11FA
                                                                                                          SUBROUTINE
                                                                                                                                                                                                                                                                       ; CODE XREF: 0000:0FF2<sup>p</sup>; 0000:104C<sup>p</sup>
11FA
11FA DD 21 A0 66
                                                        sub_0_11FA:
11FA
11FE 11 28 6A
1201 DD 36 00 01
1205 7E
1206 DD 77 03
                                                                                                                                     ix, #unk_0_66A0
                                                                                                                                     de, #soft_sprite_ram+0x128
                                                                                                            ld
                                                                                                                                    0(ix), #1
a, (hl)
3(ix), a
(de), a
                                                                                                           ld
ld
ld
 1209
                12
10
                                                                                                            ld
 120A
120B
120C
                                                                                                            inc
inc
                                                                                                                                     a, (hl)
7(ix), a
(de), a
 1200 DD 77 07
                                                                                                            ld
                                                                                                            ld
inc
inc
                                                                                                                                     hl
                                                                                                            14
                                                                                                                                     a, (hl)
8(ix), a
(de), a
                                                                                                                                              (h1)
1213 7E
1214 DD 77 08
1217 12
1218 1C
1219 23
121A 7E
121B DD 77 05
                                                                                                            ld
ld
                                                                                                            inc
                                                                                                                                     e
hl
                                                                                                                                     a, (hl)
5(ix), a
(de), a
                                                                                                            ld
ld
 121E 12
121F 23
1220 7E
1221 DD 77 09
                                                                                                            ld
                                                                                                            inc
ld
                                                                                                                                     hl
                                                                                                                                    a, (hl)
9(ix), a
                                                                                                            ld
1224 23
1225 7E
1226 DD 77 0A
                                                                                                                                    hl
a, (hl)
0xA(ix), a
                                                                                                            ld
ld
 1229 C9
                                                                                                            ret
                                                        ; End of function sub_0_11FA
 1229
                                                                                                      SUBROUTINE
 122A
122A
122A
122A
122A
122A E5
122A
122B C5
122C 06 04
                                                       sub_0_122A:
                                                                                                                                                                                                                                                                        ; CODE XREF: 0000:0FEC1p
                                                                                                                                                                                                                                                                        ; 0000:100Ffp ...
                                                                                                            push
                                                                                                                                     hl
                                                                                                           push
ld
                                                                                                                                     bc
b, #4
122E 00
122E
122E
122E 7E
122F 12
                                                        loc_0_122E:
                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_122A+8|j
                                                                                                                                               (hl)
                                                                                                            ld
                                                                                                                                    a, (hl)
(de), a
                                                                                                            ld
122F 12
1230 23
1231 1C
1232 10 FA
1234 C1
1235 E1
1236 7B
1237 81
                                                                                                            inc
                                                                                                                                     hl
                                                                                                                                     e
loc_0_122E
                                                                                                            djnz
                                                                                                           pop
pop
ld
add
                                                                                                                                     hl
                                                                                                                                     a, c
1238 5F
1239 10
123B C9
                                                                                                            ld
                10 EF
                                                                                                            djnz
                                                                                                                                     sub_0_122A
                                                                                                            ret
123B
123B
123C
123C
123C
                                                        ; End of function sub_0_122A
                                                        init_mario:
                                                                                                                                                                                                                                                                             DATA XREF: 0000:0718†o
 123C DF
123C
                                                                                                                                                                                                                                                                        ; 0000:074C\dagger\dagg
                                                                                                           rst
ld
                                                                                                                                    a, (level_type)
                                                                                                                                     0x18
123C
123D 3A 27 62
1240 FE 03
1242 01 16 E0
1245 CA 4B 12
1248 01 3F F0
                                                                                                                                                                                                                                                                        ; elevators?
                                                                                                            cp
ld
                                                                                                                                     bc, #0xE016
Z, loc_0_124B
bc, #0xF03F
                                                                                                                                                                                                                                                                        ; mario x,y coords
; yes, skip
; mario x,y coords
                                                                                                           jp
ld
 124B
124B

124B DD 21 00 62

124F 21 4C 69

1252 DD 36 00 01

1256 DD 71 03

1259 71

125A 2C
                                                       loc_0_124B:
                                                                                                                                                                                                                                                                        ; CODE XREF: 0000:1245<sup>†</sup>j
                                                                                                            ld
ld
                                                                                                                                     ix, #mario_alive_flag
hl, #soft_sprite_ram+0x4C
                                                                                                                                                                                                                                                                      ; 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
                                                                                                                                     0(ix), #1
3(ix), c
(hl), c
                                                                                                            ld
                                                                                                            ld
ld
                                                                                                            inc
ld
                                                                                                                                     7(ix), #0x80; 'Ç'
(h1), #0x80; 'Ç'
 125B DD 36 07 80
                                                                                                            ld
inc
1262 DD 36 08 02
1266 36 02
1268 2C
                                                                                                                                     8(ix), #2
                                                                                                            ld
                                                                                                            ld
inc
ld
                                                                                                                                       (hl), #2
 1268 2C
1269 DD 70 05
                                                                                                                                     1
5(ix), b
```

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

1d

126D DD 36 0F 01

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
1271 21 0A 60
                                                                ld
                                                                                hl, #main_sequencer
                                                                               (hl)
de, #0x601
queue_fg_vector_fn
1274 34
1275 11 01 06
1278 CD 9F 30
127B C9
                                                                inc
                                                                                                                                                              ; next sequence (3)
                                                                ld
                                                                                                                                                              ; display_lives_and_level
                                                                call
ret
127C
127C
127C CD BD 1D
                                                                                                                                                             ; DATA XREF: 0000:071C\u00f10 ; 0000:0750\u00e90
                                 died_in_gameplay:
                                                                call
                                                                                sub 0 1DBD
127F 3A 9D 63
                                                                ld
rst
                                                                               a, (unk_0_639D)
0x28
1282 EF
1282
1282
1283 8B 12
1285 AC 12
1287 DE 12
1289 00 00
                                                                .dw delay_before_spin
.dw mario_death_spin
.dw dead_mario_lying_down
                                                                                                                                                             ; Jump Table
                                                                 .dw 0
128B
128B
128B
                                                                                                                                                             ; DATA XREF: 0000:1283 o ; wait for 8-bit countdown
                                 delay_before_spin:
128B DF
128C 21 4D 69
128F 3E F0
1291 CB 16
                                                                rst
                                                                                0x18
                                                                               hl, #soft_sprite_ram+0x4D
a, #0xF0; '-'
(hl)
                                                                1d
                                                                ld
                                                                                                                                                             ; mario sprite << 1
                                                                rl
1291 CB 16
1293 1F
1294 77
1295 21 9D 63
1298 34
1299 3E 0D
129B 32 9E 63
129E 3E 08
12A3 2 PB 63
                                                                rra
                                                                ld
ld
                                                                               (hl), a
hl, #unk_0_639D
(hl)
                                                                inc
                                                                                     #0×D
                                                                14
                                                                ld
ld
ld
                                                                                (unk_0_639E), a
                                                                                a, #8
(eight_bit_countdown), a
12A3 CD BD 30
12A6 3E 03
12A8 32 88 60
12AB C9
                                                                call
ld
ld
                                                                                sub_0_30BD
                                                                               a, #3
(unk_0_6088), a
                                                                ret
12AC
12AC
12AC
                                                                                                                                                             ; DATA XREF: 0000:1285\daggero o ; wait for 8-bit countdown
                                mario_death_spin:
12AC DF
                                                                rst
                                                                                0x18
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
                                                                1d
                                                                                a, #8
(eight_bit_countdown), a
                                                                               hl, #unk_0_639E
(hl)
                                                                ld
                                                                dec
                                                                               Z, loc_0_12CB
hl, #soft_sprite_ram+0x4D
a, (hl)
                                                                ld
                                                                rra
ld
12BD 1F
12BE 3E 02
12C0 1F
12C1 47
12C2 AE
12C3 77
12C4 2C
                                                                rra
                                                                               b, a (h1) (h1), a
                                                                1d
                                                                xor
ld
                                                                inc
                                                                                a, b
#0x80; 'Ç'
                                                                ld
12C6 E6 80
12C8 AE
12C9 77
                                                                and
                                                                                                                                                            ; flip mario upside down?
                                                                                (hl)
(hl), a
                                                                xor
                                                                ld
12CA C9
                                                                                                                                                            ; CODE XREF: 0000:12B6†j
                                 loc 0 12CB:
12CB 21 4D 69
                                                                ld
                                                                               hl, \#soft\_sprite\_ram+0x4D
12CE 3E F4
12D0 CB 16
                                                                ld
rl
12D0 CB 16

12D2 1F

12D3 77

12D4 21 9D 63

12D7 34

12D8 3E 80

12DA 32 09 60

12DD C9

12DE
                                                                rra
                                                                14
                                                                                (hl),
                                                                               (h1), a
h1, #unk_0_639D
(h1)
a, #0x80; 'Ç'
                                                                ld
                                                                inc
ld
                                                                               a, #0x80; 'C'
(eight_bit_countdown), a
                                                                ld
                                                                ret
12DE
12DE
12DE DF
12DF CD DB 30
                                                                                                                                                             ; DATA XREF: 0000:1287\u00e9o
; wait for 8-bit countdown
                                 dead_mario_lying_down:
                                                                rst
call
                                                                                sub_0_30DB
12DF CD DB 30
12E2 21 0A 60
12E5 3A 0E 60
12E8 A7
12E9 CA ED 12
12EC 34
12ED
12ED
                                                                               hl, #main_sequencer
a, (current_player_E)
                                                                1d
                                                                                                                                                             ; player 1?
; yes, skip
                                                                and
                                                                                Z. loc 0 12ED
                                                                jр
                                                                                (h1)
                                loc_0_12ED:
                                                                                                                                                             ; CODE XREF: 0000:12E9<sup>†</sup>j
12ED 34
                                                                inc
                                                                                (hl)
12ED 34
12EE 2B
12EF 36 01
12F1 C9
12F2
12F2
12F2
12F2 CD 1C 01
                                                                               hl
(hl), #1
                                                                dec
ld
                                                                ret
                                 copy_current_lvl_data_to_P1:
                                                                                                                                                             ; DATA XREF: 0000:071E↑o
                                                                                stop_sound
                                                                call
12F2 CD 1C 01
12F5 AF
12F6 32 2C 62
12F9 21 28 62
12FC 35
12FD 7E
12FE 11 40 60
1301 01 08 00
                                                                xor
ld
ld
                                                                               (unk_0_622C), a
hl, #lives_left
(hl)
                                                                dec
                                                                ld
ld
ld
                                                                               a, (hl)
de, #p1_level_data
bc, #8
1304 ED B0
1306 A7
1307
1307
1307
2307
234 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
1319 10 2 03
131E CD 9F 30
1321 2B
1304 ED B0
                                                                ldir
                                                                               a
                                 loc 0 1307:
                                                                jp
ld
ld
                                                                                NZ, loc_0_1334
                                                                               NZ, 10c_0_1334
a, #1
hl, #pl_score
sub_0_13CA
hl, #VRAM_start+0x2D4
a, (two_players)
                                                                call
ld
```

ld and

jr

loc_0_1322:

1322

call

Z, loc_0_1322 de, #0x302

queue_fg_vector_fn

; display_message_02

; CODE XREF: 0000:1319[†]j

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
  1322 CD 26 18
                                                                         call
                                                                                          clear_14x5_HL
 1322 CD 26 18
1325 11 00 03
1328 CD 9F 30
1328 21 09 60
1322 36 C0
1330 23
1331 36 10
1333 C9
1334 1334
1334 05 08
1336 3A 0F 60
1339 A7
1336 CA 3F 13
133D 0E 17
133F
                                                                                          de, #0x300
queue_fg_vector_fn
hl, #eight_bit_countdown
(hl), #0xC0; 'L'
                                                                         ld
                                                                                                                                                                                ; display_message_00
                                                                         call
ld
ld
                                                                         inc
                                                                         14
                                                                                           (hl), #0x10
                                      loc_0_1334:
                                                                                                                                                                                ; CODE XREF: 0000:1307†j
                                                                                         c, #8
a, (two_players)
                                                                         ld
                                                                         and
                                                                                          a
Z, loc_0_133F
c, #0x17
                                                                         jp
ld
                                      loc_0_133F:
                                                                                                                                                                                 ; CODE XREF: 0000:133A1j
                                                                         ld
ld
           79
32 OA 60
                                                                                          a, c
(main_sequencer), a
 1344 32 0A 60
1343 C9
1344
1344
1344 CD 1C 01
1347 AF
1348 32 2C 62
1348 21 28 62
                                                                         ret
                                                                                                                                                                                 ; DATA XREF: 0000:07201o
                                      copy current lvl data to P2:
                                                                         call
                                                                                          stop_sound
          CD 1C 01
AF
3 32 2C 62
8 21 28 62
3 75
7 7E
11 48 60
8 01 08 00
                                                                         xor
ld
                                                                                           a
(unk_0_622C)
                                                                                          hl, #lives_left (hl)
 134B 21 28 62
134F 75
1350 11 48 60
1353 01 08 00
1356 ED B0
1358 A7
1359 C2 7F 13
135C 3E 03
1361 CD CA 13
1364 11 03 03
1367 CD 9F 30
136A 11 00 03
136D CD 9F 30
136A 11 00 03
136D CD 9F 30
1370 21 D3 76
1373 CD 26 18
1376 21 09 60
1379 36 C0
1378 23
1376 21 1376 29
1377 21
1377 21
                                                                         ld
                                                                         ld
ld
ld
                                                                                         a, (h1)
de, #p2_level_data
bc, #8
                                                                         ldir
and
jp
ld
                                                                                          NZ, loc_0_137F
                                                                                         NZ, loc_0_137F
a, #3
hl, #p2_score
sub_0_13CA
de, #0x303
queue_fg_vector_fn
de, #0x300
queue_fg_vector_fn
hl, #VRAM_start+0x2D3
clear_14x5_HL
hl, #eight_bit_countdown
(h1), #0xC0; 'L'
h1
                                                                         ld
call
ld
                                                                                                                                                                                ; display_message_03
                                                                         call
ld
call
                                                                                                                                                                                ; display_message_00
                                                                         ld
                                                                         call
                                                                         ld
ld
                                                                         inc
ld
                                                                                          (hl), #0x11
                                                                         ret
 137F
137F
137F 0E 17
1381 3A 40 60
1384 A7
1385 C2 8A 13
1388 0E 08
138A
                                                                                                                                                                                 ; CODE XREF: 0000:1359<sup>†</sup> †
                                      loc_0_137F:
                                                                         ld
ld
                                                                                          c, #0x17
a, (p1_level_data)
                                                                         and
jp
ld
                                                                                          NZ, loc_0_138A
138A 79
138B 32 0A 60
138E C9
138F
                                      loc_0_138A:
                                                                                                                                                                                ; CODE XREF: 0000:1385<sup>†</sup> †
                                                                         ld
ld
                                                                                          (main_sequencer), a
                                                                         ret
                                                                                                                                                                                 ; DATA XREF: 0000:0722<sup>†</sup>o ; wait for 8-bit countdown
                                      p1_game_over:
 138F DF 139F DF 1390 0E 17 1392 3A 48 60 1395 1395 1395 34 1396 A7 1397 C2 9C 13 139A 0E 14 139C 139C 139C 79 139D 32 0A 60
                                                                                          0x18
                                                                         rst
                                                                                          c, #0x17
a, (p2_level_data)
                                                                         ld
                                      loc_0_1395:
                                                                                                                                                                                ; CODE XREF: 0000:13A7-i
                                                                         inc
and
                                                                                          (hl)
                                                                                          NZ, loc_0_139C
                                                                         jp
ld
                                                                                           c, #0x14
                                      loc_0_139C:
                                                                                                                                                                                 ; CODE XREF: 0000:1397<sup>†</sup>j
                                                                         ld
 139C 79
139D 32 0A 60
13A0 C9
13A1
13A1
13A1 DF
13A2 0E 17
                                                                         1d
                                                                                          (main_sequencer), a
                                                                                                                                                                                 ; DATA XREF: 0000:0724\u00e9o o; wait for 8-bit countdown
 13A1 1 13A2 0E 17 13A2 0E 17 13A4 3A 40 60 13AA 13AA 13AA 13AA 13AA 13AA 26 60 13AB 32 82 7D 13B0 AF 13B1 32 0A 60 13B4 21 01 01 13B7 22 0D 60 13BB C9 13BB
                                      p2_game_over:
                                                                                         0x18
c, #0x17
a, (p1_level_data)
loc_0_1395
                                                                         ld
                                                                         ld
                                                                         jp
                                       set_flip_and_current_P2:
                                                                                                                                                                                ; DATA XREF: 0000:0726 o
                                                                         ld
ld
                                                                                           a, (upright)
(flipscreen), a
                                                                         xor
                                                                         ld
ld
ld
                                                                                           (main_sequencer), a
hl, #0x101
                                                                                                                                                                                 ; reset ingame sequencer
                                                                                          (current_player_D), hl
                                                                                                                                                                                 ; both current player flags to P2
                                                                         ret
 13BB
13BB
13BB
                                      set_flip_and_current_P1:
                                                                                                                                                                                 ; DATA XREF: 0000:0728\u00e10
 13BB AF
13BB AF
13BC 32 0D 60
13BF 32 0E 60
13C2 32 0A 60
13C5 3C
13C6 32 82 7D
13C9 C9
                                                                         xor
ld
                                                                                           (current_player_D), a (current_player_E), a (main_sequencer), a
                                                                                                                                                                                 ; player 1
; player 1
; reset ingame sequencer
; default flipscreen
                                                                         ld
ld
```

inc ld ret

ld ld

rst

sub_0_13CA:

13CA 13CA

13CE CF

13CF 13

13CA 13CA 11 C6 61 13CA 13CD 12

(flipscreen), a

de, #unk_0_61C6
(de), a

; CODE XREF: 0000:130F1p

; return if attract mode

; 0000:1361^p

SUBROUTINE

de

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
13D0 01 03 00
                                                 ld
                                                             bc, #3
13D3 ED B0
13D5 06 03
13D7 21 B1 61
13DA
                                                 ldir
                                                            b, #3
hl, #unk_0_61B1
13DA
13DA
13DA 1B
13DB 1A
13DC 0F
13DD 0F
13DE 0F
13DF 0F
13ED E6 0F
                                                                                                                       ; CODE XREF: sub 0 13CA+1F-j
                         loc_0_13DA:
                                                dec
ld
rrca
                                                            de
a, (de)
                                                 rrca
rrca
rrca
and
                                                             #0xF
                                                 ld
inc
ld
                                                             (hl), a
                                                            hl
a, (de)
                                                 and
                                                 ld
inc
djnz
                                                             (hl), a
                                                             loc_0_13DA
                                                 ld
                                                             b, #0xE
                         loc_0_13ED:
                                                                                                                        ; CODE XREF: sub_0_13CA+26|j
                                                             (hl), #0x10
                                                 ld
                                                            hl loc_0_13ED (hl), #0x3F; '?' b, #5 hl, #hs_tbl_5th+0x1D de, #unk_0_61C7
                                                 djnz
ld
                                                 ld
                                                 14
                         loc_0_13FC:
                                                                                                                       ; CODE XREF: sub_0_13CA+51|j
                                                            a, (de)
(hl)
hl
                                                 1d
                                                 sub
inc
inc
                                                             de
                                                 ld
sbc
inc
                                                            a,
a,
hl
                                                 inc
                                                             de
                                                 ld
sbc
ret
                                                 push
1d
                                                             bc
                                                             b, #0x19
                         loc_0_140A:
                                                                                                                       ; CODE XREF: sub 0 13CA+47-j
                                                            c, (hl)
a, (de)
(hl), a
                                                 14
                                                 ld
ld
ld
                                                             a, c
(de), a
hl
                                                 ld
dec
dec
                                                            loc_0_140A
bc, #0xFFF5
hl, bc
de, hl
                                                 djnz
ld
add
                                                 ex
                                                 add
ex
pop
                                                            hl, bc
de, hl
bc
                                                             loc 0 13FC
                                                 djnz
                         ret; End of function sub_0_13CA
                         draw_name_registered:
                                                                                                                        ; DATA XREF: 0000:072A↑o
                                                             display_credits
                                                 call
                                                 rst
                                                                                                                        ; wait for 8-bit countdown
                                                 call
ld
                                                             clear_visible_area_and_sprites
                                                             (current_player_E), a
                                                 ld
                                                                                                                        ; player 1
                                                 ld
ld
ld
                                                            (current_player_D), a
hl, #high_score_tbl_ram+0x1C
de, #0x22; '"'
b, #5
                                                                                                                        ; player 1
                                                 ld
                                                 ld
                                                             a, #1
                         loc_0_1437:
                                                                                                                        ; CODE XREF: 0000:143C|j
                                                 Cρ
                                                             (hl)
                                                jp
add
djnz
                                                             Z, loc_0_1459
hl, de
loc_0_1437
                                                 1d
```

```
13E2 77
13E3 23
13E4 1A
13E5 E6 OF
13E7 77
13E8 23
13E9 10 EF
13EB 06 OE
13ED 0
13EB 06 OE
13ED 0
13EB 23
13E9 10 FB
13F2 36 3F
13F4 06 05
13F2 1A5 61
13F9 11 C7 61
13FC 21 A5 61
13FP 11 C7 61
13FC 21 A5 61
13FP 11 C7 61
13FC 23
13FC 1A 13FF 13
1400 1A 14
1401 9E
1402 23
1403 13
1404 1A
1401 9E
1402 1A
1401 1B
1402 1A
1407 C5
1408 06 19
1408 1A
1407 T5
1408 1A
1408 1B
1411 10 F7
1413 01 F5 FF
1416 09
1417 EB
1418 10 DF
141D C9
1417 EB
1418 09
1417 EB
1418 09
1417 EB
1418 10 DF
1419 EB
1410 1B
1411 10 F7
1413 11 C 61
1419 11 C 61
1419 12 C 00
1427 32 0E 60
1428 32 0D 60
1427 32 0E 60
1428 32 0D 60
1427 32 0E 60
1428 32 0D 60
1429 21 1C 61
1430 11 22 00
1433 06 05
1443 39 01
1437 1438 B 5 9 14
1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1438 19 1
                                                                                                                                                                                                                                                              hl, #high_score_tbl_ram+0x1C
b, #5
a, #3
                                                                                                                                                                                                              ld
ld
                                                                                                           loc 0 1445:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:144A-j
                                                                                                                                                                                                                                                            (h1)
Z, loc_0_144F
h1, de
loc_0_1445
loc_0_1475
                                                                                                                                                                                                              cp
jp
add
                                                                                                                                                                                                              djnz
loc_0_144F:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; CODE XREF: 0000:1446 j
                                                                                                                                                                                                             ld
ld
                                                                                                                                                                                                                                                                (current_player_E), a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; player 2
; player 2
                                                                                                                                                                                                              ld
                                                                                                                                                                                                                                                                (current_player_D), a
                                                                                                                                                                                                              ld
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; CODE XREF: 0000:1438 j
                                                                                                           loc 0 1459:
                                                                                                                                                                                                                                                              hl, #upright
(hl)
(flipscreen), a
                                                                                                                                                                                                              ld
                                                                                                                                                                                                              or
ld
                                                                                                                                                                                                              ld
ld
                                                                                                                                                                                                                                                               a, #0
(eight_bit_countdown), a
                                                                                                                                                                                                                                                            (eight_bit_countdown hl, #main_sequencer (hl) de, #0x30D b, #0xC
                                                                                                                                                                                                              ld
                                                                                                                                                                                                              ld
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; display_message_0D
                                                                                                                                                                                                              ld
                                                                                                           loc_0_146E:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; CODE XREF: 0000:1472|j
 146E CD 9F 30
1471 13
                                                                                                                                                                                                              call
                                                                                                                                                                                                                                                               queue_fg_vector_fn de
```

```
djnz
                                                                           loc_0_146E
1474 C9
1475
1475
1475
1475 3E 01
1477 32 82 7D
147A 32 05 60
147D 32 07 60
1480 3E 00
1482 32 0A 60
1485 C9
1486
1474 C9
                                                                                                                                                     ; CODE XREF: 0000:144C^j
                               loc_0_1475:
                                                                            a, #1
(flipscreen), a
(nmi_sequencer), a
(attract_mode_flag), a
                                                             ld
ld
                                                                                                                                                     ; set attract mode flag
                                                             ld
                                                             ld
                                                             ld
                                                                            (main_sequencer), a
                                                             ret
do_initials_entry:
                                                                                                                                                     ; DATA XREF: 0000:072C1o
                                                                           display_credits
hl, #eight_bit_countdown
a, (hl)
                                                             call
ld
                                                             ld
and
                                                                            NZ, loc_0_14DC
                                                             jp
ld
                                                                           NZ, 10E_0_1496
(palette_bank), a
(palette_bank+1), a
(h1), #1
h1, #unk_0_6030
(h1), #0xA
                                                             ld
ld
ld
ld
                                                             inc
ld
                                                                           hl
(hl), #0
                                                             inc
                                                                            hl
                                                             ld
inc
ld
                                                                            (hl), #0x10
                                                                           hl
(hl), #0x1E
14A7 23 14A8 36 3E 14AA 23 14AB 36 00 14AD 21 E8 75 14B0 22 36 60 14B3 21 1C 61 14B6 3A 0E 60 14B9 07 14BA 3C 14BB 14BC 11 22 00 14BF 06 04 14C1
                                                                            hl
                                                             inc
                                                                            (hl), #0x3E; '>'
                                                             ld
inc
ld
                                                                           hl (hl), #0
hl, #VRAM_start+0x1E8
                                                             1d
                                                             ld
ld
ld
                                                                           (unk_0_6036), hl
hl, #high_score_tbl_ram+0x1C
a, (current_player_E)
                                                                                                                                                     ; 0/1
; 0/2
; 1/3
                                                             rlca
                                                                           a
c, a
de, #0x22; '"'
b, #4
                                                             ld
14BF 06 04
14C1
14C1
14C1 7E
14C2 B9
14C3 CA C9 14
14C6 19
14C7 10 F8
14C9
14C9
14C9 22 38 60
14CC 11 F3 FF
                                                             ld
                               loc_0_14C1:
                                                                                                                                                     ; CODE XREF: 0000:14C7|j
                                                             ld
                                                                           a, (hl)
                                                             cp
jp
add
                                                                           Z, loc_0_14C9
hl, de
loc_0_14C1
                                                             djnz
                               loc_0_14C9:
                                                                                                                                                     ; CODE XREF: 0000:14C3<sup>†</sup>j; point to high score
                                                                            (unk_0_6038), hl
                                                             ld
14CC 11 F3 FF
14CF 19
14DO 22 3A 60
14D3 06 00
                                                             1d
                                                                            de, #0xFFF3
hl, de
                                                             add
ld
                                                                            (unk_0_603A), hl
                                                             ld
                                                                           b, #0
a, (unk_0_6035)
14D3 06 00
14D5 3A 35 60
14D8 4F
14D9 CD FA 15
14DC
14DC
14DC 21 34 60
14DF 35
                                                             ld
                                                             ld
call
                                                                            sub_0_15FA
                                                                                                                                                     ; high score initial select sprite
                               loc_0_14DC:
                                                                                                                                                     ; CODE XREF: 0000:148E1i
                                                                           hl, #unk_0_6034
14E0 C2 FC 14
14E3 36 3E
14E5 2B
14E6 35
                                                                           NZ, loc_0_14FC (hl), #0x3E;
                                                             jp
ld
dec
dec
                                                                           hl
(hl)
                                                                           Z, loc_0_15C6
a, (hl)
b, #0xFF
14E7 CA C6 15
                                                             jp
ld
ld
14EA 7E
14EB 06 FF
14ED
14ED
                               loc_0_14ED:
                                                                                                                                                    ; CODE XREF: 0000:14F0-j
14ED 04
14EE D6 0A
14F0 D2 ED 14
                                                             inc
                                                                           #0xA
NC, loc_0_14ED
a, #0xA
                                                             sub
                                                             jp
add
ld
ld
a, #0xA
(VRAM_start+0x152), a
                                                                            a, b
(VRAM_start+0x172), a
                                                             ld
                               loc_0_14FC:
                                                                                                                                                     ; CODE XREF: 0000:14E0↑j
                                                                           hl, #unk_0_6030
                                                             ld
                                                                           b, (nl)
(hl), #0xA
a, (controller_in)
7, a
                                                             ld
                                                             ld
ld
                                                                                                                                                      ; edge-detected inputs
                                                                                                                                                     ; button pressed?
; yes, skip
; left/right only
; yes, skip
                                                             bit
                                                                            7, a
NZ, jump_pressed
                                                             jp
and
                                                             jp
                                                                            NZ, left_right_pressed
                                                                            (hl), a
loc_0_158A
1510 77
1511 C3 8A 15
1514
1514
                                                             1d
1514
1514 05
1515 CA 1D 15
1518 78
                                                                                                                                                    ; CODE XREF: 0000:150C1j
                               left_right_pressed:
                                                             dec
jp
                                                                           b
Z, loc_0_151D
         78
77
                                                             ld
                                                                            a, b (hl)
                                                                                b
                                                             ld
                                                                            loc_0_158A
151A C3 8A 15
151D
                                                             jp
151D
151D
                               loc_0_151D:
                                                                                                                                                     ; CODE XREF: 0000:1515<sup>†</sup>j
151D  
151D   CB   4F  
151F   C2   39   15  
1522   3A   35   60  
1526   FE   1E  
1528   C2   2D   15  
152B   3E   00  
152D   3E
                                                                           NZ, loc_0_1539
a, (unk_0_6035)
                                                             jp
ld
                                                             ср
                                                                           NZ, loc_0_152D
a, #0
                                                                                                                                                     ; CODE XREF: 0000:1528<sup>†</sup>j; 0000:153E<sup>†</sup>j ...
                               loc_0_152D:
152D
152D 32 35 60
                                                            1d
                                                                           (unk_0_6035), a
```

```
hl
                                                inc
                                                            (hl)
                                                dec
                                                           h, #0xC
h1, #VRAM_start+0x1E8
iy, (unk_0_603A)
de, #0xFFE0
                                                ld
                                                ld
ld
                                                ld
                        loc_0_15DF:
                                                                                                                      ; CODE XREF: 0000:15E6|j
                                                           a, (hı,
0(iy), a
15DF
                                                ld
15DF 7E
15E0 FD 77 00
15E3 FD 23
15E5 19
15E6 10 F7
15E8 06 05
15EA 11 14 03
15ED
                                                ld
                                                           iy
hl, de
                                                inc
add
                                                            loc_0_15DF
                                                djnz
                                                            b, #5
de, #0x314
                                                14
                                                                                                                      ; display_message_14
                        loc_0_15ED:
                                                                                                                      ; CODE XREF: 0000:15F1|j
15ED CD 9F 30
                                                call
                                                           queue_fg_vector_fn
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
15F0 13
15F0 13
15F1 10 FA
15F3 11 1A 03
15F6 CD 9F 30
15F9
                                                                             loc_0_15ED
                                                              dinz
                                                                             de, #0x31A
queue_fg_vector_fn
                                                                                                                                                        ; display message 1A
                                                              call
                                                                                                                                                        ; CODE XREF: 0000:158E†j
15F9
                                locret_0_15F9:
15F9 C9
                                                                                                                                                        ; 0000:15B5†j
15F9
15FA
                                                            SUBROUTINE
15FA
15FA
15FA
15FA
                                sub_0_15FA:
                                                                                                                                                        ; CODE XREF: 0000:14D91p
15FA D5
15FA
15FB E5
                                                                                                                                                        ; 0000:1533<sup>p</sup>
                                                              push
                                                                            de
hl
15FB E5
15FC CB 21
15FE 21 0F 36
1601 09
1602 EB
1603 21 74 69
1606 1A
1607 13
1608 77
1609 23
1600 36 72
1600 23
1600 36 0C
160F 23
1610 1A
1611 77
1612 E1
1613 D1
                                                              push
                                                              sla
                                                                            hl, #letter_coords
hl, bc
de, hl
                                                              ld
add
                                                              ex
ld
                                                                            hl, #soft_sprite_ram+0x74
                                                                                                                                                       ; sprite for initials entry
                                                              ld
inc
ld
                                                                            a, (de)
de
(hl), a
                                                                                                                                                        ; X coordinate
                                                              inc
                                                                            hl
                                                                             (h1), #0x72; 'r'
h1
(h1), #0xC
                                                              ld
inc
ld
inc
                                                                                                                                                        ; tile
                                                                                                                                                        ; palette
                                                                             hl
                                                              ld
ld
                                                                             a, (de)
(hl), a
                                                                                                                                                        ; Y coordinate
                                                              pop
1613 D1
1614 C9
1614
1614
                                                                             de
                                ; End of function sub_0_15FA
1615
1615
1615
                                mario_pauline_reunion:
                                                                                                                                                        ; DATA XREF: 0000:072E↑o
1615 CD BD 30 1618 3A 27 62 1618 0F 61617 3A 88 63 1622 EF 622 1623 54 16 1625 70 16 1629 32 17 162B 57 17 162B 57 17 162E 17 162F 162F 162F 162F
                                                             call
ld
rrca
                                                                            sub_0_30BD
                                                                             a, (level_type)
                                                                            NC, loc_0_162F
a, (unk_0_6388)
                                                              jp
ld
                                                              rst
                                                                                                                                                        ; go!
                                                              .dw loc_0_1654
                                                                                                                                                        ; Jump table
                                                              .dw loc_0_1670
.dw loc_0_168A
.dw loc_0_1732
                                                               .dw loc 0 1757
                                                               .dw loc_0_178E
162F
162F
162F 0F
1630 D2 41 16
1633 3A 88 63
1636 EF
1636
1637 A3 16
1639 BB 16
1639 BB 16
1638 32 17
163D 57 17
163F 8E 17
1641 1641
1641 CD BD 1D
1644 3A 88 63
1647 EF
1647 EF
1648 69 30
                                loc 0 162F:
                                                                                                                                                        ; CODE XREF: 0000:161C14
                                                              rrca
                                                                            NC, loc_0_1641
a, (unk_0_6388)
                                                              jp
ld
                                                              rst
                                                                             0x28
                                                                                                                                                        ; go!
                                                              .dw loc_0_16A3
                                                                                                                                                        ; Jump table
                                                              .dw loc_0_16BB .dw loc_0_1732
                                                              .dw
                                                                    loc_0_1757
                                loc_0_1641:
                                                                                                                                                        ; CODE XREF: 0000:1630 j
                                                              call
                                                                             sub_0_1DBD
                                                                            a, (unk_0_6388)
0x28
                                                              ld
                                                              rst
                                                                                                                                                        ; gol
                                                              .dw unk_0_17B6
                                                                                                                                                        ; Jump table
164A 69 30
164C 39 18
164E 6F 18
1650 80 18
                                                              .dw loc_0_3069
.dw loc_0_1839
.dw loc_0_186F
.dw loc_0_1880
1650 80 18
1652 C6 18
1654
1654
1654 CD 08 17
1657 21 5C 38
1658 CD 4E 00
                                                               .dw loc_0_18C6
                                loc 0 1654:
                                                                                                                                                        ; DATA XREF: 0000:16231o
                                                                            sub_0_1708
hl, #kong_normal_spr
copy_sprites_2_11_data
                                                              call
ld
call
165D 3E 20
165F 32 09 60
1662
                                                              ld
                                                              ld
                                                                             (eight_bit_countdown), a
1662
1662 21 88 63
1665 34
1666 3E 01
1668 F7
                                                                                                                                                        ; CODE XREF: 0000:16A0-1
                                loc 0 1662:
                                                              ld
                                                                             hl, #unk_0_6388
                                                                             (h1)
a, #1
0x30
                                                              ld
                                                                                                                                                        ; return if level bit not set
                                                              rst
1668 F7
1669 21 0B 69
166C 0E FC
166E FF
166F C9
                                                                            hl, #soft_sprite_ram+0xB
c, #0xFC; '3'
                                                              ld
                                                                                                                                                        ; sprite #2, x coord
; -4
                                                              ld
                                                                                                                                                        ; subtract 4 from x coord for 10 sprites
                                                              rst
166F C9
1670
1670
1670 DF
1670 DF
1671 21 32 39
1674 CD 4E 00
1677 3E 20
1679 32 09 60
167C 21 88 63
167F 34
1680 3E 04
1682 F7
1683 21 0B 69
                                                              ret
                                                                                                                                                        ; DATA XREF: 0000:1625 o ; wait for 8-bit countdown
                                loc_0_1670:
                                                              rst
                                                              ld
call
ld
                                                                            hl, #dk_throw_barrel_spr
copy_sprites_2_11_data
a, #0x20; ''
(eight_bit_countdown), a
hl #bub 0.6388
```

ld ld inc ld

rst ld ld

rst

rst

0x18

loc_0_168A:

21 OB 69 OE 04

1683 1686

168A 168A DF

1688 FF

1689 C9 168A 168A

h1, #unk_0_6388 (h1) a, #4 0x30

hl, #soft_sprite_ram+0xB c, #4 0x38

; return if level bit not set sprite #2, x coord +4

; DATA XREF: 0000:1627\u00f1o ; wait for 8-bit countdown

; add 4 to x coord for 10 sprites

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
 168B 21 8C 38
168E CD 4E 00
                                                                                                                                                                               hl, #kong_climbing_spr
                                                                                                                                             ld
                                                                                                                                             call
                                                                                                                                                                               copy_sprites_2_11_data
a, #0x66 ; 'f'
168E CD 4E 00
1691 3E 66
1693 32 0C 69
1696 AF
1697 32 24 69
169A 32 2C 69
169D 32 AF 62
16AO C3 62 16
                                                                                                                                             ld
ld
                                                                                                                                                                                a, #0x66; 'f'
(soft_sprite_ram+0xC), a
                                                                                                                                                                                                                                                                                                                                                  ; sprite #3, y coord
                                                                                                                                             xor
                                                                                                                                                                              (soft_sprite_ram+0x24), a
(soft_sprite_ram+0x2C), a
(unk_0_62AF), a
loc_0_1662
                                                                                                                                             1d
                                                                                                                                             ld
                                                                                                                                             jр
16A0 C3 62 16
16A3
16A3
16A3 CD 08 17
16A6 3A 10 69
16A9 D6 3B
16AB 21 5C 38
16AB CD 4E 00
                                                                                                                                                                                                                                                                                                                                                          ; DATA XREF: 0000:1637\o
                                                                         loc_0_16A3:
                                                                                                                                             call
                                                                                                                                                                               sub_0_1708
                                                                                                                                                                              a, (soft_sprite_ram+0x10)
#0x3B; ';'
hl, #kong_normal_spr
copy_sprites_2_11_data
                                                                                                                                             1d
                                                                                                                                                                                                                                                                                                                                                         ; sprite #4, y coord
                                                                                                                                             sub
ld
call
16AE CD 4E 00
16B1 21 08 69
16B4 4F
16B5 FF
16B6 21 88 63
16B9 34
16BA C9
16BB
                                                                                                                                             ld
ld
                                                                                                                                                                               hl, #soft_sprite_ram+8
                                                                                                                                                                                                                                                                                                                                                         ; sprite #2, y coord
                                                                                                                                                                                c, a
0x38
                                                                                                                                                                                                                                                                                                                                                          ; add C to y coord for 10 sprites
                                                                                                                                             rst
                                                                                                                                                                              hl, #unk_0_6388
                                                                                                                                             ld
                                                                                                                                                                                (hl)
 16BB
16BB
16BB AF
16BC 32 AO 62
16BF 3A A3 63
16C2 4F
16C3 3A 10 69
16C6 FE 5A
                                                                         loc_0_16BB:
                                                                                                                                                                                                                                                                                                                                                          ; DATA XREF: 0000:163910
                                                                                                                                                                             a
(unk_0_62A0), a
a, (unk_0_63A3)
                                                                                                                                             1d
                                                                                                                                                                             (unk_0_63A3)
c, a
a, (unk_0_63A3)
c, a
a, (soft_sprite_ram+0x10)
column :
colum
                                                                                                                                             14
                                                                                                                                             ld
ld
                                                                                                                                                                                                                                                                                                                                                         ; sprite #4, y coord
                                                                                                                                             ср
16C8 D2 E1 16
16CB CB 79
16CD CA D5 16
16D0
                                                                                                                                             jp
bit
                                                                                                                                                                               NC, loc_0_16E1
                                                                                                                                                                              7, c
Z, loc_0_16D5
                                                                                                                                             jр
16D0
16D0 3E 01
16D2 32 A0 62
                                                                        loc_0_16D0:
                                                                                                                                                                                                                                                                                                                                                          ; CODE XREF: 0000:16E8-j
                                                                                                                                             ld
ld
                                                                                                                                                                               a, #1
(unk_0_62A0), a
 16D5
16D5
16D5 CD 02 26
16D5
                                                                                                                                                                                                                                                                                                                                                          ; CODE XREF: 0000:16CD<sup>†</sup>j; 0000:16EB<sup>†</sup>j
                                                                        loc_0_16D5:
                                                                                                                                             call
ld
                                                                                                                                                                               sub_0_2602
 16D8 3A A3 63
16DB 4F
16DC 21 08 69
                                                                                                                                                                                            (unk_0_63A3)
 16DB 4F
16DC 21
16DF FF
                                                                                                                                                                              c, a
hl, #soft_sprite_ram+8
                                                                                                                                             ld
ld
                                                                                                                                                                                                                                                                                                                                                          ; sprite #2, y coord
; add C to y coord for 10 sprites
                                                                                                                                             rst
                                                                                                                                                                               0x38
 16E0 C9
 16E1
16E1
                                                                                                                                                                                                                                                                                                                                                          ; CODE XREF: 0000:16C81j
                                                                        loc_0_16E1:
 16E1
16E1 FE 5D 16E3 DA EE 16 16E6 CB 79 16E8 CA DO 16 16EE 16EE 16EE
                                                                                                                                                                                #0x5D ; '1
                                                                                                                                                                              тожьD ; ']'
C, loc_0_16EE
7, с
                                                                                                                                             jp
bit
                                                                                                                                                                                          loc_0_16D0
                                                                                                                                             jp
jp
                                                                                                                                                                               loc_0_16D5
16EE 16EE 21 8C 38 16F1 CD 4E 06 16F4 3E 66 16F6 32 0C 69 16F9 AF 16FA 32 24 69 1700 32 AF 62 1703 21 88 63 1706 34 1707 C9 1708
                                                                        loc_0_16EE:
                                                                                                                                                                                                                                                                                                                                                         ; CODE XREF: 0000:16E311
                                                                                                                                                                             hl, #kong_climbing_spr
copy_sprites_2_11_data
a, #0x66; 'f'
(soft_sprite_ram+0xC), a
                                                                                                                                             ld
call
ld
                                                                                                                                             ld
                                                                                                                                                                                                                                                                                                                                                         ; sprite #4, x coord
                                                                                                                                             xor
ld
                                                                                                                                                                                a (soft_sprite_ram+0x24), a (soft_sprite_ram+0x2C), a (unk_0_62AF), a
                                                                                                                                             ld
ld
                                                                                                                                                                              hl, #unk_0_6388
(hl)
                                                                                                                                             ld
                                                                                                                                             inc
                                                                                                                                             ret
 1708
1708
1708
                                                                                                                                             SUBROUTINE
1708
1708
1708 CD 1C 01
                                                                                                                                                                                                                                                                                                                                                          ; CODE XREF: 0000:1654\p; 0000:16A3\p
                                                                         sub_0_1708:
                                                                                                                                             call
1708
1708 21 20 6A
170E 36 80
1710 23
1711 36 76
1713 23
1714 36 09
1716 23
                                                                                                                                                                               stop sound
                                                                                                                                             ld
ld
                                                                                                                                                                                hl, #soft_sprite_ram+0x120
(hl), #0x80; 'Ç'
                                                                                                                                                                                (hl), #0x76 ; 'v'
                                                                                                                                             1d
                                                                                                                                                                              hl
(hl), #9
                                                                                                                                             ld
                    23
36 20
21 05 69
36 13
21 C4 75
11 20 00
3E 10
CD 14 05
21 8A 60
36 07
23
36 03
C9
                                                                                                                                             inc
ld
                                                                                                                                                                             hl (hl), #0x20; ''hl, #soft_sprite_ram+5 (hl), #0x13 hl, #VRAM_start+0x1C4 de, #0x20; ''
                                                                                                                                             ld
ld
                                                                                                                                                                                                                                                                                                                                                         ; sprite #1, flipy & code
; pauline, front-on
 171E
1721
1724
1726
1729
                                                                                                                                             ld
ld
                                                                                                                                                                             a, #0x10
display_3_tiles_HL
hl, #unk_0_608A
(hl), #7
                                                                                                                                             ld
call
ld
 172C 36
172E 23
172F 36
1731 C9
                                                                                                                                             ld
                                                                                                                                             inc
ld
                                                                                                                                             ret
                                                                         ; End of function sub_0_1708
 1732
                                                                                                                                                                                                                                                                                                                                                          ; DATA XREF: 0000:1629\u00f30; 0000:1638\u00f30
1732 CD 6F 30 1732 CD 6F 30 1735 3A 13 69 1738 FE 2C 173A DO 173B AF 173C 32 0C 69 1745 3E 0C 69 1745 3E 0C 69 1745 3E 0C 69 1745 3E 0C 69 1745 3C 0C 69 174
                                                                        loc_0_1732:
                                                                                                                                            call
ld
                                                                                                                                                                               sub 0 306F
                                                                                                                                                                                             (soft_sprite_ram+0x13)
                                                                                                                                             cp
ret
                                                                                                                                                                               a
(soft_sprite_ram), a
(soft_sprite_ram+4), a
(soft_sprite_ram+0xC), a
                                                                                                                                             xor
ld
                                                                                                                                                                                                                                                                                                                                                         ; sprite #0, y coord
; sprite #1, y coord
; sprite #3, y coord
                                                                                                                                             ld
ld
ld
                                                                                                                                             ld
dec
                                                                                                                                                                                 (soft_sprite_ram+0x24), a
                                                                                                                                                                              (soft_sprite_ram+0x2C), a
hl, #soft_sprite_ram+0x121
(hl)
```

174E 21 1751 34

21 6A

1d

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
                                                                                                          hl, #unk_0_6388
(hl)
  1752 21 88 63
                                                                                      ld
              34
                                                                                      inc
  1756 C9
1757
1757
  1757
1757 CD 6F 30
                                             loc_0_1757:
                                                                                                                                                                                                                ; DATA XREF: 0000:162B o
                                                                                                                                                                                                                : 0000:163Dto
  1757 CD OF 30
1757
175A CD 6C 17
                                                                                                          sub_0_306F
sub_0_176C
                                                                                      call
                                                                                      call
  175D 23
175E 13
                                                                                      inc
inc
                                                                                                          hl
  175D 23
175E 13
175F CD 83 17
1762 3E 40
1764 32 09 60
1767 21 88 63
176A 34
176B C9
                                                                                                          de
                                                                                     call
ld
                                                                                                         suc_U_1783
a, #0x40; '@'
(eight_bit_countdown), a
hl, #unk_0_6388
(hl)
                                                                                                          sub_0_1783
                                                                                     ld
ld
                                                                                     inc
ret
  176C
176C
176C
176C
                                                                                      SUBROUTINE
 sub_0_176C:
                                                                                                                                                                                                                ; CODE XREF: 0000:175A p
                                                                                                         hl, #soft_sprite_ram+0x2F
b, #0xA
                                                                                      ld
                                                                                      ld
                                                                                                                                                                                                                ; CODE XREF: sub_0_176C+14|j
                                              loc_0_1774:
                                                                                                       a
a, (h1)
h1, de
#0x19
NC, loc_0_177F
(h1), #0
                                                                                      and
                                                                                      ld
sbc
                                                                                      ср
  177D 36 00
177F
177F
177F 2B
                                             loc_0_177F:
                                                                                                                                                                                                               ; CODE XREF: sub_0_176C+E<sup>†</sup>j
  1780
1782
1782
                                             djnz loc_(
ret
; End of function sub_0_176C
             10 F2
C9
                                                                                                          loc_0_1774
  1782
 1782
1783
1783
1783
1783
1783
1783 06 0A
                                                                                    SUBROUTINE
                                             sub_0_1783:
                                                                                                                                                                                                                ; CODE XREF: 0000:175f<sup>p</sup>
                                                                                      ld
                                                                                                          b, #0xA
  1785
1785
                                             loc_0_1785:
                                                                                                                                                                                                                ; CODE XREF: sub 0 1783+8-i
  1785
1785 7E
1786 A7
1787 C2 26 00
178A 19
178B 10 F8
178D C9
                                                                                      ld
                                                                                                          a, (hl)
                                                                                      and
                                                                                                          NZ, pop_hl_ret
hl, de
loc_0_1785
                                                                                      jр
                                                                                       add
                                                                                      djnz
                                                                                     ret
                                             ; End of function sub_0_1783
  178D
  178D
178D
178E
178E
  178E
178E DF
178E
                                                                                                                                                                                                                ; DATA XREF: 0000:162D\u00e10
                                             loc_0_178E:
                                                                                                                                                                                                                     0000:163F↑o
wait for 8-bit countdown
  178F 2A 2A 62
                                                                                                          hl, (seq_data)
                                                                                      1d
  178F 2A 2A 62
1792 23
1793 7E
1794 FE 7F
1796 C2 9D 17
1799 21 73 3A
179C 7E
179D
                                                                                      inc
                                                                                                          hl
                                                                                                         hl

a, (hl)

#0x7F; ''

NZ, loc_0_179D

hl, #level_seq_2

a, (hl)
                                                                                      ld
                                                                                                                                                                                                                ; restart repeating levels?
                                                                                      ср
                                                                                                                                                                                                                ; no, skip
; repeating levels
; get new level
                                                                                      jp
ld
                                                                                                                                                                                                                ; CODE XREF: 0000:1796 i
  179D
                                            loc_0_179D:
 179D 22 2A 62 179D 22 2A 62 17AO 32 27 62 17AS 11 00 05 17A6 CD 9F 30 17AA 32 88 63 17AD 21 09 60 17BO 36 30 17B2 23 17B3 36 08 17B5 C9 17B5
                                                                                                          (seq_data), hl
(level_type), a
de, #0x500
                                                                                      14
                                                                                     ld
ld
                                                                                                                                                                                                               ; update_bonus_timer
                                                                                     call
xor
ld
                                                                                                          queue_fg_vector_fn
                                                                                                            (unk_0_6388)
                                                                                                          hl, #eight_bit_countdown (hl), #0x30; '0'
                                                                                      ld
                                                                                     ld
inc
ld
                                                                                                          hl (hl), #8
                                                                                                                                                                                                                ; sequencer = how high screen
                                                                                     ret
  17B5 C9
17B5
17B6 00
17B7
                                              unk_0_17B6:
                                                                                                                                                                                                                ; DATA XREF: 0000:1648 o
 1787 CD 1C 01
1788 21 8A 60
178B 36 0E
178B 23
1700 36 03
1702 3E 10
1704 11 20 00
1707 21 83 75
1700 CD 14 05
1700 CD 14 05
1709 11 47 3A
1700 CD A7 0D
1705 11 47 3A
1700 CD A7 0D
1705 11 57 74
1705 CD A7 0D
1705 11 47 3A
1700 CD A7 0D
1705 21 05 76
1722 CD 26 18
1705 11 40 3A
1706 CD A7 0D
1708 21 D0 76
1722 CD 26 18
1708 11 47 3A
1708 CD A7 0D
1708 21 D0 76
1722 CD 26 18
1718 11 53 3A
1714 CD A7 0D
1757 12 CB 76
1757 CD 76
1758 CD 26 18
1757 1 CB 76
1757 CD 76
1758 CD 26 18
1757 1 CB 76
1757 CD 76
1757 CD 76
1758 CD 26 18
1757 1 CB 76
1757 CD 76
1758 CD 26 18
1757 CD 76
1758 CD 26 18
1757 1 CB 76
1757 CD 77
1758 CD 26 18
1757 1 CB 76
1757 CD 77
1758 CD 26 18
1757 1 CD 76
1758 CD 26 18
1757 1 CD 76
1758 CD 26 18
                                                                                                          stop_sound
hl, #unk_0_608A
(hl), #0xE
                                                                                      call
                                                                                     ld
ld
                                                                                      inc
                                                                                                          hl (hl), #3
                                                                                     ld
ld
ld
                                                                                                          a, #0x10
de, #0x20; ''
hl, #VRAM_start+0x223
                                                                                                                                                                                                                ; <space>
; inc by column
                                                                                     call
ld
call
ld
                                                                                                          display_3_tiles_HL
hl, #VRAM_start+0x183
display_3_tiles_HL
hl, #VRAM_start+0x2DA
17D3 CD 14 05
17D3 21 DA 76
17D6 CD 26 18
17D9 11 47 3A
17DC CD A7 0D
17DF 21 D5 76
17E2 CD 26 18
17E5 11 4D 3A
17E8 CD A7 0D
17EE CD 26 18
17F1 11 53 3A
17F4 CD A7 0D
17F7 21 CB 76
17FA CD 26 18
17F1 15 53 3A
1806 CD A7 0D
1803 21 5C 38
1806 CD 4E 00
1809 21 08 69
1800 CD 44
180E FF
                                                                                                         hl, #VRAM_start+0x2DA
clear_14x5_HL
de, #draw_data_rivet_endl
sub_0_DA7
hl, #VRAM_start+0x2D5
clear_14x5_HL
de, #draw_data_rivet_end2
sub_0_DA7
hl, #VRAM_start+0x2D0
                                                                                     call
ld
call
ld
                                                                                     call
ld
call
ld
                                                                                                         hl, #VRAM_start+ux2DU
clear_14x5_HL
de, #draw_data_rivet_end3
sub_0_DA7
hl, #VRAM_start+0x2CB
clear_14x5_HL
de, #draw_data_rivet_end4
sub 0_DA7
```

call ld call ld

call ld call

ld call ld

1d

180E FF

de, #draw_data_rivet_es sub_0_DA7 hl, #kong_normal_spr copy_sprites_2_11_data hl, #soft_sprite_ram+8 c, #68

; sprite #2, y coord

; add 68 to y coord for 10 sprites

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
                                                                                                                                                                     ; sprite #1, yflip & code
; pauline, straight-on
180F 21 05 69
                                                                                    hl, #soft_sprite_ram+5
                                                                    ld
180F 21 05 69
1812 36 13
1814 3E 20
1816 32 09 60
1819 3E 80
181B 32 90 63
181E 21 88 63
1821 34
1822 22 C0 63
                                                                                    (h1), #0x13
a, #0x20;
                                                                    ld
                                                                   ld
ld
ld
                                                                                    a, #0x20; ' ' (eight_bit_countdown), a
                                                                                    a, #0x80 ; 'Ç'
(kong_thrash_tmr), a
                                                                                    ____thrash_tm
hl, #unk_0_6388
(hl)
                                                                    ld
                                                                   ld
inc
ld
                                                                                    (unk_0_63C0), hl
1825 C9
1826
1826
1826
                                                                   ret
                                                                    SUBROUTINE
1826
1826
1826 11 DB FF
                                                                                                                                                                     ; CODE XREF: 0000:13221p; 0000:13731p ...
                                   clear_14x5_HL:
                                                                    ld
                                                                                   de. #0xFFDB
1826
1829 OE OE
182B 3E 10
182D
                                                                                   c, #0xE
a, #0x10
                                                                    1d
                                                                                                                                                                     ; <space>
                                                                                                                                                                     ; CODE XREF: clear_14x5_HL+F|j
182D
                                  loc_0_182D:
182D 06 05
182F
182F
                                                                   ld
                                                                                   b, #5
                                  loc 0 182F:
                                                                                                                                                                      ; CODE XREF: clear 14x5 HL+B-j
                                                                                                                                                                     ; display space
; next row
; loop 5 times
182F 77
                                                                                    (hl), a
                                                                   ld
182F 77
1830 23
1831 10 FC
1833 19
1834 0D
1835 C2 2D 18
1838 C9
1838
                                                                   inc
djnz
                                                                                   hl
loc_0_182F
                                                                                                                                                                      ; next column
                                                                    add
                                                                                    hl, de
                                                                    dec
                                                                    jp
                                                                                   NZ, loc_0_182D
                                                                                                                                                                     ; loop through 14 columns
                                                                    ret
                                   ; End of function clear_14x5_HL
1838
1839
1839
1839
                                                                                                                                                                    ; DATA XREF: 0000:164C\u00f30
                                   loc 0 1839:
1839 21 90 63 183C 34 183D CA 59 18 1840 7E 1841 E6 07 1843 CO 1844 11 CF 39 1847 CB 5E 1849 20 03 184B 11 F7 39 184E
                                                                                   hl, #kong_thrash_tmr
(hl)
Z, loc_0_1859
a, (hl)
#7
                                                                   ld
inc
                                                                    jp
ld
                                                                    and
                                                                                   de, #0x39CF
                                                                    ld
                                                                    bit
                                                                                         (hl)
                                                                                    NZ, loc_0_184E
de, #0x39F7
                                                                    jr
ld
184B 11 F7 39

184E

184E EB

184F CD 4E 00

1852 21 08 69

1855 0E 44

1857 FF

1858 C9
                                  loc 0 184E:
                                                                                                                                                                     : CODE XREF: 0000:184914
                                                                   ex
call
                                                                                   copy_sprites_2_11_data
hl, #soft_sprite_ram+8
c, #68
0x20
                                                                    1d
                                                                                                                                                                     ; sprite #2, y coord
                                                                   ld
rst
                                                                                                                                                                     ; add 68 to y coord for 10 sprites
                                                                   ret
1859
1859
1859
1859
                                                                                                                                                                     ; CODE XREF: 0000:183D<sup>†</sup>j
                                   loc_0_1859:
                                                                                    hl, #kong_normal_spr
                                                                    ld
1859 21 5C 38

185C CD 4E 00

185F 21 08 69

1862 0E 44

1864 FF

1865 3E 20

1867 32 09 60

186A 21 88 63

186D 34

186E C9

186F

186F
                                                                   call
ld
ld
                                                                                    copy_sprites_2_11_data
hl, #soft_sprite_ram+8
c, #68
0x38
                                                                                                                                                                     ; sprite #2, y coord
                                                                                                                                                                     ; add 68 to y coord for 10 sprites
                                                                    rst
ld
                                                                                   a, #0x20 ; ' '
(eight_bit_countdown), a
hl, #unk_0_6388
(hl)
                                                                                          #0x20 ; ' '
                                                                    ld
ld
                                                                    inc
                                                                                                                                                                     ; DATA XREF: 0000:164E<sup>†</sup>o ; wait for 8-bit countdown
186F
                                  loc_0_186F:
186F DF
1870 21 1F 3A
1873 CD 4E 00
1876 3E 03
1878 32 84 60
187B 21 88 63
187E 34
                                                                                   0x18
hl, #fk_falling_spr
copy_sprites_2_11_data
                                                                   rst
ld
call
                                                                   ld
ld
ld
                                                                                   a, #3
(digital_snd_tmr_kong_fall), a
hl, #unk_0_6388
(hl)
                                                                                                                                                                     ; tmr=3
                                                                    inc
187F C9
1880
1880
                                                                    ret
1880
1880 21 0B 69
1883 0E 01
1885 FF
                                                                                                                                                                      ; DATA XREF: 0000:1650 o
                                  loc 0 1880:
                                                                                                                                                                      ; sprite #2, x coord
; +1
                                                                   ld
ld
                                                                                   hl, #soft_sprite_ram+0xB
c, #1
0x38
1885 FF 1886 3A 1B 69 1889 FE D0 188B C0 188C 3E 20 188E 32 19 69 1891 21 24 6A 1894 36 7F 1896 2C 1897 36 39 1899 2C 189A 36 01 189C 2C 189D 36 D8
                                                                                                                                                                      ; add 1 to x coord for 10 sprites
                                                                    rst
ld
                                                                                    a, (soft_sprite_ram+0x1B)
#0xD0 ; 'ŏ'
                                                                    cp
ret
                                                                                   NZ

a, #0x20; ' '

(soft_sprite_ram+0x19), a

hl, #soft_sprite_ram+0x124

(hl), #0x7F; ' '
                                                                    ld
ld
                                                                    ld
ld
                                                                    inc
                                                                   ld
inc
ld
                                                                                    (hl), #0x39; '9'
                                                                                    (hl), #1
189C 2C
189D 36 D8
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
18B7 3E 00
18B9 32 AF 62
18BC 3E 03
18BE 32 82 60
18C1 21 88 63
18C4 34
18C5 C9
                                                                    inc
                                                                                   1
(hl), #0xD8; 'Ī'
hl, #VRAM_start+0x2C6
clear_14x5_HL
de, #draw_data_rivet_end5
sub_0_DA7
de, #4
bc, #0x228
hl, #soft_sprite_ram+3
loc 0.3D
                                                                   ld
ld
call
ld
                                                                    call
ld
ld
                                                                    ld
                                                                                                                                                                   ; sprite #0, x coord
```

call ld

ld ld

ld ld inc

ret

ld

loc_0_18C6:

18C5 C9 18C6 18C6

18C6 21 AF 62

loc_0_3D a, #0 (unk_0_62AF), a

hl, #unk_0_62AF

d, #3
(digital_snd_tmr_thump), a
h1, #unk_0_6388
(h1)

; tmr=3

; DATA XREF: 0000:16521o

```
jp
ld
and
ret
                                                                                             Z, loc_0_193D
a, (hl)
#7
18CA CA 3D 19
18CA CA 3D 19
18CD 7E
18CE E6 07
18D0 C0
18D1 21 25 6A
18D4 7E
18D5 EE 80
18D7 77
                                                                                             hl, #soft_sprite_ram+0x125
                                                                            1d
                                                                                             n1, #soft_sprite_ram+0x12:
a, (h1)
#0x80 ; 'C'
(h1), a
h1, #soft_sprite_ram+0x19
b, (h1)
5, b
                                                                           ld
xor
ld
18D7 77
18D8 21 19 69
18D8 21 19 69
18D8 46
18DC CB A8
18DE AF
18DF CD 09 30
18E2 F6 20
18E4 77
18E9 FE E0
18E8 C2 10 19
18EB C2 10 19
18E6 3E 50
18F0 32 4F 69
18F3 3E 00
18F5 32 4D 69
18F6 3E 9K 69
                                                                            ld
                                                                           ld
res
                                                                           xor
                                                                                             a sub_0_3009 #0x20; (h1), a h1, #unk_0_62AF a, (h1) #0xE0; 'Ó' NZ, loc_0_1910
                                                                           call
or
ld
ld
                                                                           ld
cp
jp
ld
ld
ld
ld
ld
                                                                                              (soft_sprite_ram+0x4F), a
a, #0
                                                                                              (soft_sprite_ram+0x4D), a
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

1908 3E 5F
                                                                                             a, #0x9F; 'f'
(soft_sprite_ram+0x4C), a
a, (mario_y_coord)
#0x80; 'C'
NC, loc_0_190F
a, #0x80; 'C'
(soft_sprite_ram+0x4D), a
#0x8F; '
                                                                           cp
jp
ld
ld
ld
190C 32 4C 69
190F
                                                                                             (soft_sprite_ram+0x4C), a
                                                                           1d
190F
190F 7E
                                    loc_0_190F:
                                                                                                                                                                                        ; CODE XREF: 0000:1902|j
                                                                                             a, (hl)
                                                                           ld
1910
1910
1910 FE CO
                                       loc_0_1910:
                                                                                                                                                                                        ; CODE XREF: 0000:18EB†j
                                                                                              #0xC0 ; 'L'
                                                                           ср
1910 FE CU
1912 CO
1913 21 8A 60
1916 36 0C
1918 3A 29 62
191B 0F
191C 38 02
191E 36 05
                                                                            ret
                                                                                             NZ
hl, #unk_0_608A
(hl), #0xC
a, (level)
                                                                           ld
ld
                                                                            ld
                                                                            rrca
                                                                                              C, loc_0_1920
(hl), #5
                                                                           jr
ld
1920
1920
1920 23
1920 23
1921 36 03
1923 21 23 6A
1926 36 40
1928 2B
1929 36 09
                                      loc_0_1920:
                                                                                                                                                                                        ; CODE XREF: 0000:191C1 i
                                                                           inc
ld
                                                                                             hi
(h1), #3
hl, #soft_sprite_ram+0x123
(h1), #0x40; '@'
h1
(h1), #9
                                                                            1d
                                                                           ld
dec
1929 36 09
1928 2B
192C 36 76
192E 2B
192F 36 8F
193I 3A 03 62
1934 FE 80
1936 D0
1937 3E 6F
1937 3E 06
193C C9
193D
                                                                           dec
ld
dec
ld
                                                                                              (hl), #0x76; 'v'
                                                                                              hl (hl), #0x8F; 'Å'
                                                                           ld
cp
ret
                                                                                              a, (mario_y_coord)
#0x80 ; 'Ç'
                                                                            ld
                                                                                             a, #0x6F ; 'o'
(soft_sprite_ram+0x120), a
                                                                            ld
193D
193D
193D 193D 2A 2A 62 1940 23 1941 75 1944 C2 4B 19 1947 21 73 3A 194A 7E 194B 22 2A 62 1951 21 29 62 1951 21 29 62 1955 11 00 05 1958 CD 9F 30 1956 AF 1962 21 09 60 1967 23 1968 36 68 1968 36 08 1968 36 08 1968 36 08
                                      loc_0_193D:
                                                                                                                                                                                         ; CODE XREF: 0000:18CA1i
                                                                                             hl, (seq_data)
hl
a, (hl)
#0x7F; ''
NZ, loc_0_194B
                                                                            ld
                                                                            inc
ld
                                                                                                                                                                                         ; restart repeating levels?
; no, skip
; start repeating levels
; get new level
                                                                            jp
ld
                                                                                             hl, #level_seq_2
                                                                           ld
                                                                                              a, (hl)
                                      loc_0_194B:
                                                                                                                                                                                         ; CODE XREF: 0000:1944<sup>†</sup>j
                                                                            ld
                                                                                              (seg data), hl
                                                                                             (level_type), a
hl, #level
(hl)
de, #0x500
                                                                           ld
ld
                                                                                                                                                                                          ; next level counter
                                                                            inc
                                                                            ld
                                                                                                                                                                                          ; update bonus timer
                                                                           call
xor
ld
                                                                                              queue_fg_vector_fn
                                                                                             a (unk_0_622E), a (unk_0_6388), a hl, #eight_bit_countdown (hl), #0xE0; 'Ó'
                                                                            ld
                                                                            ld
ld
                                                                                             hl
(hl), #8
                                                                            inc
                                                                                                                                                                                         ; set how high screen
196A C9
196B
196B
                                       loc_0_196B:
                                                                                                                                                                                         ; DATA XREF: 0000:073010
196B
196B CD 52 08
196E 3A 0E 60
1971 C6 12
1973 32 0A 60
1976 C9
1977
                                                                           call
ld
add
                                                                                             clear_tiles_and_sprites
a, (current_player_E)
a, #18
                                                                            1d
                                                                                              (main_sequencer), a
                                                                                                                                                                                         ; 18/19
1977
                                      attract_mode_gameplay:
                                                                                                                                                                                         ; DATA XREF: 0000:074E10
1977 CD EE 21
197A
                                                                                             next_attract_action
                                                                                                                                                                                          ; DATA XREF: 0000:071A o
197A
                                       gameplay:
197A CD BD 1D 197D CO 8C 1E 1980 CD C3 1A 1983 CD 72 1F 1986 CD 8F 2C 1989 CD 03 2C 198C CD EA 24 1995 CD DB 2C DD 8C 2D 198F CD 04 2E 1992 CD EA 24 1995 CD DB 2D D4 2E 1998 CD D4 2E 1998 CD D4 2E 1995 CD DB 2D D4 2E
                                                                           call
                                                                                              sub_0_1DBD
sub_0_1E8C
                                                                                                                                                                                          ; another jump table
                                                                            call
                                                                                              sub_0_1AC3
                                                                           call
call
                                                                                              sub_0_2C8F
sub_0_2C03
                                                                                                                                                                                         ; process fireballs?
; process springs
                                                                            call
                                                                                              sub 0 30ED
                                                                            call
                                                                                              sub_0_2E04
sub_0_24EA
sub_0_2DDB
                                                                            call
                                                                                              sub_0_2ED4
sub_0_2207
1998 CD D4
                                                                            call
199B CD 07 22
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
199E CD 33 1A
19A1 CD 85 2A
19A4 CD 46 1F
19A7 CD FA 26
19AA CD F2 25
19AD CD DA 19
19B0 CD FB 03
19B3 CD 08 2F
19B6 CD 1D 28
19B9 CD 57 1E
19BC CD 07 1A
19BF CD CB 2F
19C2 00
19C4 00
19C4 00
19C5 3A 00 62
19C5 3A 00 62
19C6 A7
19C9 C0
19CA D 1C 01
19CD 21 82 60
19D0 36 03
19D2
19D2
19D2
19D2
19D2
19D2
19D5 34
19D6 2B
19D7 36 40
19D9 C9
                                                            call
                                                                          sub_0_1A33
                                                                          sub_0_1A33
sub_0_2A85
sub_0_1F46
sub_0_26FA
sub_0_25F2
sub_0_19DA
                                                            call
                                                           call
call
                                                            call
                                                           call
call
                                                                          animate_kong_and_pauline
sub_0_2808
sub_0_281D
                                                           call
call
call
                                                                          sub_0_1E57
sub_0_1A07
sub_0_2FCB
                                                           nop
nop
nop
ld
                                                                          a, (mario_alive_flag)
                                                            and
                                                                                                                                                  ; mario alive?
                                                           ret
call
ld
                                                                          NZ
                                                                                                                                                   ; yes, return
                                                                          stop_sound
hl, #digital_snd_tmr_thump
(hl), #3
                                                            ld
                                                                                                                                                   ; tmr=3
                               loc_0_19D2:
                                                                                                                                                   ; CODE XREF: 0000:1A30|j
                                                                          hl, #main_sequencer (hl)
                                                            ld
                                                                                                                                                  ; next sequence
; 8-bit countdown
; set counter
                                                            inc
                                                                         hl
(hl), #64
                                                            dec
ld
                                                           ret
19DA
19DA
19DA
19DA
19DA
                                                            SUBROUTINE
19DA
19DA 3A 03 62
19DD 06 03
19DF 21 0C 6A
                               sub_0_19DA:
                                                                                                                                                  ; CODE XREF: 0000:19ADfp
                                                            ld
                                                                          a, (mario_y_coord)
                                                            ld
                                                                          hl. #soft sprite ram+0x10C
                                                            ld
19E2
19E2
19E2 BE
                               loc_0_19E2:
                                                                                                                                                  ; CODE XREF: sub_0_19DA+10|j
                                                                          (h1)
                                                            ср
19E2 BE
19E3 CA ED 19
19E6 2C
19E7 2C
19E8 2C
19E9 2C
19EA 10 F6
19EC C9
19ED
                                                            jp
inc
inc
inc
inc
                                                                          Z, loc_0_19ED
                                                                          loc_0_19E2
19ED
19ED
19ED
19ED 3A 05 62
19F0 2C
19F1 2C
19F2 2C
19F3 BE
19F4 C0
19F5 2D
19F6 2D
19F7 CB 5E
19F9 C0
                               loc_0_19ED:
                                                                                                                                                  ; CODE XREF: sub_0_19DA+9<sup>†</sup> j
                                                                         a, (mario_x_coord)
1
                                                            ld
                                                            inc
inc
inc
                                                                          (hl)
                                                            ср
                                                           ret
dec
dec
bit
                                                                          NZ
                                                                               (hl)
19F7 CB 5E

19F9 CO

19FA 2D

19FB 22 43 63

19FE AF

19FF 32 42 63

1A02 3C

1A03 32 40 63
                                                           ret
dec
ld
                                                                          NZ
                                                                          1
(unk_0_6343), hl
                                                            xor
                                                            ld
                                                                          (unk_0_6342), a
                                                                          (unk_0_6340), a
1A06 C9
                                                            ret
; End of function sub_0_19DA
                                      SUBROUTINE
                                                                                                                                                  ; CODE XREF: 0000:19BC1p
                               sub_0_1A07:
                                                            1d
                                                                                (unk_0_6386)
                                                                                                                                                  ; go!
                                                            .dw locret 0 1A1E
1A0B 1E 1A
1A0D 15 1A
1A0F 1F 1A
1A11 2A 1A
1A13 00 00
1A15
1A15
1A15
1A15 AF
1A16 32 87 63
1A19 3E 02
1A1B 32 86 63
1A1E
1A1E C9
1A1E
1A1E IA1E
                                                                                                                                                   ; Jump table
                                                            .dw loc_0_1A15
.dw loc_0_1A1F
.dw loc_0_1A2A
                                                            .dw
                              loc_0_1A15:
                                                                                                                                                  ; DATA XREF: sub_0_1A07+6<sup>o</sup>
                                                            xor
                                                           ld
ld
                                                                          (unk_0_6387), a
a, #2
                                                                          (unk_0_6386), a
                                                            ld
                               locret_0_1A1E:
                                                                                                                                                   ; DATA XREF: sub_0_1A07+4↑o
                                                            ret
                               ; End of function sub_0_1A07
1A1E
1A1F
1A1F
1A1F
                                                                                                                                                  ; DATA XREF: sub_0_1A07+8↑o
loc 0 1A1F:
                                                           ld
dec
ret
                                                                          hl, #0x6387
(hl)
NZ
                                                                          a, #3
(unk_0_6386), a
                                                            ld
                                                            ld
                                                            ret
                               loc_0_1A2A:
                                                                                                                                                  ; DATA XREF: sub_0_1A07+A10
                                                            ld
                                                                          a, (mario_jumping)
                                                            and
ret
                                                                          a
NZ
                                                           pop
                                                                          hl
                                                                          loc_0_19D2
```

SUBROUTINE

a, #8

ld

; CODE XREF: 0000:199E↑p

1A33 1A33 1A33

1A33 3E 08

sub 0 1A33:

```
1A35 F7
                                                                                                                  ; return if level bit not set
                                               rst
                                                          0x30
                                                         a, (mario_y_coord)
#0x4B; 'K'
1A36 3A 03 62
1A39 FE 4B
1A3B CA 4B 1A
1A3E FE B3
                                               ld
                                               cp
jp
                                                         #UA.

Z, loc_U_...

#0xB3; '|'

Z, loc_0_1A4B

a, (unk_0_6291)
                                               ср
1A40 CA 4B 1A
1A43 3A 91 62
1A46 3D
1A47 CA 51 1A
                                              jp
ld
dec
jp
                                                         a
Z, loc_0_1A51
1A4A C9
1A4B
1A4B
1A4B
                        loc_0_1A4B:
                                                                                                                   ; CODE XREF: sub_0_1A33+8<sup>†</sup>j
1A4B 3E 01
1A4B
1A4D 32 91 62
1A50 C9
                                                                                                                   ; sub_0_1A33+D<sup>†</sup> j
                                              ld
ld
                                                          (unk_0_6291), a
                                              ret
1A50 C9
1A51
1A51
1A51
1A51 32 91 62
1A54 47
1A55 3A 05 62
1A58 3D
                        loc_0_1A51:
                                                                                                                  ; CODE XREF: sub_0_1A33+14<sup>†</sup> j
                                               ld
                                                          (unk_0_6291), a
                                              ld
ld
                                                         b, a
a, (mario_x_coord)
                                               dec
1A59 FE D0
                                              cp
ret
rlca
                                                          #0xD0 ; 'ð'
1A5B D0
1A5C 07
1A5D D2 62 1A
                                                          NC, loc_0_1A62
2. b
                                               qŗ
1A60 CB D0
1A62
1A62
1A62 07
                                               set
                       loc_0_1A62:
                                                                                                                  ; CODE XREF: sub_0_1A33+2A1j
                                              rlca
1A63 07
1A64 D2 69 1A
1A67 CB C8
1A69
                                               rlca
                                                         NC, loc_0_1A69
1, b
                                              jp
set
loc_0_1A69:
                                                                                                                  ; CODE XREF: sub_0_1A33+31 j
                                               and
                                               ср
                                               jp
set
                                                          NZ, loc_0_1A72
                                                          1, b
                        loc 0 1A72:
                                                                                                                  ; CODE XREF: sub_0_1A33+3A1j
                                               ld
                                                          a, (mario_y_coord)
                                               rlca
                                                         NC, loc_0_1A7B
                                               jp
set
                        loc_0_1A7B:
                                                                                                                  ; CODE XREF: sub_0_1A33+43 j
                                               ld
                                                         hl, #unk_0_6292
                                                         a, b
a, 1
1, a
a, (h1)
                                               1d
                                              add
ld
ld
                                              and
ret
ld
ld
                                                         (h1), #0
h1, #unk_0_6290
(h1)
1A89 35
1A8A 78
1A8B 01 05 00
1A8E 1F
                                               dec
                                               ld
ld
                                                         a, b
bc, #5
                                               rra
                                                         C, loc_0_1ABD
hl, #0x2CB
1A8F DA BD 1A
1A92 21 CB 02
1A95
1A95
1A95 A7
                        loc 0 1A95:
                                                                                                                 ; CODE XREF: sub 0 1A33+8D-j
                                               and
1A96 CA 9E 1A
1A99
                                                          Z, loc_0_1A9E
                                              jp
1A99
                        loc_0_1A99:
                                                                                                                  ; CODE XREF: sub 0 1A33+68-j
1A99 09
1A9A 3D
1A9B C2 99 1A
                                               add
                                                         hl, bc
NZ, loc_0_1A99
                                               jр
                        loc_0_1A9E:
                                                                                                                  ; CODE XREF: sub_0_1A33+63<sup>†</sup>j
                                               ld
                                                         bc, #VRAM_start
hl, bc
                                               add
                                                          a, #0x10
(h1), a
                                              ld
ld
dec
                                                          (hl), a
                                               inc
inc
ld
                                                         1 (h1), a
a, #1
(unk_0_6340), a
(unk_0_6342), a
(unk_0_6225), a
                                               ld
                                               ld
ld
                                               ld
ld
                                                          a, (mario_jumping)
                                               call
                                                          Z, sub_0_1D95
                                               ret
1ABD
1ABD
1ABD
                        loc_0_1ABD:
                                                                                                                  ; CODE XREF: sub_0_1A33+5C↑j
1ABD 21 2B 01
                                              ld
                                                         hl, #0x12B
1AC0 C3 95 1A
1AC0
1AC0
                        jp loc_0_1A95; End of function sub_0_1A33
1AC3
1AC3
1AC3
1AC3
                        ; SUBROUTINE
; CODE XREF: 0000:1980 p
                        sub_0_1AC3:
                                              ld
dec
                                                          a, (mario_jumping)
                                                         a
Z, loc_0_1BB2
                                              jp
ld
and
                                                          a, (unk_0_621E)
                                                         a
NZ, loc_0_1B55
                                               jp
ld
                                                          a, (unk_0_6217)
                                              dec
jp
ld
                                                          Z, loc_0_1AE6
                                                         a, (mario_climbing)
1ADC CA 38 1B
                                                         Z, loc_0_1B38
```

```
1ADF 3A 10 60
                                                                                                                                a, (controller_in)
                                                                                                         ld
                                                                                                                                                                                                                                                            ; jump pressed?
; yes, skip
   1AE2
                                                                                                         rla
   1AE3 DA 6E 1B
1AE6
1AE6
                                                                                                                                C, loc 0 1B6E
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_1AC3+12<sup>†</sup>j
                                                       loc_0_1AE6:
  1AE6 CD 1F 24
1AE9 3A 10 60
1AEC 1D
1AED CA F5 1A
                                                                                                         call
                                                                                                                                 sub 0 241F
                                                                                                        ld
dec
                                                                                                                                  a, (controller_in)
                                                                                                                                e
Z, loc_0_1AF5
                                                                                                         jp
bit
  1AED CA F5 1A
1AF0 CB 47
1AF2 C2 8F 1C
1AF5
1AF5 15
1AF5 15
1AF6 CA FE 1A
1AF9 CB 4F
1AFB C2 AB 1C
                                                                                                                                NZ, loc_0_1C8F
                                                                                                         jp
                                                       loc_0_1AF5:
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_1AC3+2A1j
                                                                                                         dec
                                                                                                                                d
Z, loc_0_1AFE
                                                                                                        jp
bit
                                                                                                                                1, a
NZ, loc_0_1CAB
                                                                                                         jр
   1AFE
1AFE
1AFE 3A 17 62
                                                       loc_0_1AFE:
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_1AC3+33 j
                                                                                                         ld
                                                                                                                                a, (unk_0_6217)
  1AFE 3A 17 62
1B01 3D
1B02 C8
1B03 3A 05 62
1B06 C6 08
1B08 57
1B09 3A 03 62
1B0C F6 03
1B0C CB 97
1B10 01 15 00
1B13 CD 6E 23
1B16 F5
1B17 21 07 62
1B18 7E 68 80
                                                                                                         dec
                                                                                                         ret
ld
                                                                                                                                 a, (mario_x_coord)
                                                                                                        add
ld
                                                                                                                                 a, #8
d, a
                                                                                                                                a, (mario_y_coord)
                                                                                                        ld
or
                                                                                                         res
                                                                                                                                 2, a
bc. #0x15
                                                                                                         14
                                                                                                         call
                                                                                                                                 sub_0_236E
                                                                                                         push
1d
                                                                                                                                 af
hl, #mario_flipy_sprite_tile
  1B17 21 07 62

1B1A 7E

1B1B E6 80

1B1D F6 06

1B1F 77

1B20 21 1A 62

1B23 3E 04

1B25 B9
                                                                                                        ld
and
                                                                                                                                 a, (hl)
#0x80; 'Ç'
                                                                                                                                #b (hl), a hl, #unk_0_621A a, #4
                                                                                                                                                                                                                                                           ; mario climbing character
                                                                                                         or
ld
                                                                                                        ld
ld
  1B25 B9
1B26 36 01
1B28 D2 2C 1B
1B2B 35
1B2C
1B2C
1B2C F1
1B2D A7
                                                                                                                                (hl), #1
NC, loc_0_1B2C
(hl)
                                                                                                         cp
ld
                                                                                                                                                                                                                                                           ; set as broken ladder
                                                                                                        jp
dec
                                                                                                                                                                                                                                                            ; set as normal ladder
                                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+651j
                                                      loc_0_1B2C:
                                                                                                        pop
and
                                                                                                                                 af
  1B2C F1
1B2D A7
1B2E CA 4E 1B
1B31 7E
1B32 77
1B33 C0
1B34 2C
1B35 72
1B36 2C
1B37 70
1B38 1B38 A 10 60
1B38 CB 5F
1B3D C2 F2 1C
1B40 3A 15 62
1B43 A7
1B44 C8
1B45
1B45 3A 10 60
1B48 CB 57
1B44 C2 03 1D
1B40 C9
1B44 C2 03 1D
                                                                                                                                a
Z, loc_0_1B4E
                                                                                                        jp
ld
and
ret
                                                                                                                                 a, (hl)
                                                                                                                                 a
NZ
                                                                                                         inc
                                                                                                         ld
                                                                                                                                  (hl), d
                                                                                                        inc
ld
                                                                                                                                                                                                                                                           ; set top coordinate of ladder
; set bottom Y coordinate of ladder
                                                                                                                                 (hl), b
                                                      loc_0_1B38:
                                                                                                                                a, (controller_in)
3, a
                                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+191j
                                                                                                       ld
bit
                                                                                                                                                                                                                                                            ; down?
                                                                                                                                NZ, loc_0_1CF2
a, (mario_climbing)
a
Z
                                                                                                         jp
ld
and
                                                                                                                                                                                                                                                            ; yes, go
                                                                                                         ret
                                                       loc_0_1B45:
                                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+8F|j
                                                                                                                                 a, (controller_in)
                                                                                                                                                                                                                                                            ; up?
; yes, go
                                                                                                        bit
                                                                                                                                2, a
NZ, loc_0_1D03
   1B4E
184E 2C
184F 70
1850 2C
1851 72
1852 C3 45 18
1855
1855
                                                       loc_0_1B4E:
                                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+6Bfj
                                                                                                        inc
ld
                                                                                                                                 1
(hl), b
                                                                                                                                                                                                                                                            ; set top Y corordinate of ladder
; set bottom coordinate of ladder
                                                                                                         ld
                                                                                                                                  (hl), d
                                                                                                                                  loc_0_1B45
                                                                                                         jр
  1855

1855

1855

1858

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1850

1850

1850

1960

1970

1970

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   1B55
                                                       loc_0_1B55:
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_1AC3+B<sup>†</sup>j
                                                                                                                                hl, #unk_0_621E
(hl)
                                                                                                        ld
                                                                                                        dec
                                                                                                                                (NI)
NZ
a, (unk_0_6218)
(unk_0_6217), a
hl, #mario_flipy_sprite_tile
a, (hl)
#0x80; 'C'
                                                                                                        ret
ld
ld
                                                                                                         ld
                                                                                                        ld
and
ld
                                                                                                                                                                                                                                                           ; h-flip mario
                                                                                                                                  (hl), a
                                                                                                         xor
                                                                                                         ld
                                                                                                                                 (unk_0_6202), a
loc_0_1DA6
                                                                                                         jp
  186E
186E
186E 3E 01
1870 32 16 62
1873 21 10 62
1876 3A 10 60
1879 01 80 00
187C 1F
                                                       loc_0_1B6E:
                                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+20 j
                                                                                                                                                                                                                                                            ; start_jump
; set mario jumping
                                                                                                                                  (mario_jumping), a
                                                                                                         ld
                                                                                                        ld
ld
ld
                                                                                                                                hl, #unk_0_6210
a, (controller_in)
bc, #0x80; 'Ç'
                                                                                                         rra
                                                                                                                                                                                                                                                           ; right?
; yes, skip
  1B7C 1F
1B7D DA 8A 1B
1B80 01 80 FF
1B83 1F
1B84 DA 8A 1B
1B87 01 00 00
1B8A
                                                                                                                                C, loc_0_1B8A
bc, #0xFF80
                                                                                                         jp
ld
                                                                                                                                                                                                                                                           ; left?
; yes, skip
                                                                                                         rra
                                                                                                                                 C, loc_0_1B8A
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_1AC3+BA^j; sub_0_1AC3+C1^j;
   1B8A
                                                      loc 0 1B8A:
   1B8A AF
   1B8A
1B8B 70
                                                                                                        xor
ld
                                                                                                                                  (hl), b
   1B8C 2C
1B8D 71
1B8E 2C
1B8F 36 01
                                                                                                         inc
                                                                                                        ld
inc
                                                                                                                                  (hl), c
                                                                                                                                  (hl), #1
   1B92 36 48
                                                                                                                                  (hl), #0x48; 'H'
                                                                                                         ld
```

ld ld

xor ld

1d

call jр

a (unk_0_621F) a, (unk_0_6225)

Z, sub_0_1D95 loc_0_1DA6

1C68 AF 1C69 32 1F 62 1C6C 3A 25 62 1C6F 3D

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

```
Page: 42
```

```
; CODE XREF: sub_0_1AC3+14D^j
                            loc_0_1C76:
1C76 3A 05 62
                                                                          (mario x coord)
                                                                     h1, #unk_0_620E
#0xF
(h1)
1C79 21 0E 62
1C7C D6 0F
1C7E BE
                                                         ld
                                                         ср
                                                         jp
ld
ld
ld
                                                                      C, loc_0_1DA6
a, #1
(unk_0_6220), a
1C7F DA A6 1D
1C7F DA A6 1D
1C82 3E 01
1C84 32 20 62
1C87 21 84 60
1C8A 36 03
1C8C C3 A6 1D
1C8F
1C8F
                                                                      hl, #0x6084
(hl), #3
loc_0_1DA6
                                                         ld
1C8F
1C8F 06 01
1C91 3A 0F 62
1C94 A7
                            loc_0_1C8F:
                                                                                                                                          ; CODE XREF: sub_0_1AC3+2F1j
                                                        ld
ld
                                                                     b, #1
a, (unk_0_620F)
                                                         and
1C94 A7
1C95 C2 D2 1C
1C98 3A 02 62
1C9B 47
1C9C 3E 05
1C9E CD 09 30
1CA1 32 02 62
1CA4 E6 03
                                                                      NZ, loc_0_1CD2
a, (unk_0_6202)
b, a
                                                         jp
ld
ld
                                                         ld
                                                                      a. #5
                                                        call
ld
and
                                                                       sub_0_3009
                                                                       (unk_0_6202), a
                                                                       #0x80 ;
1CA6 F6 80
                                                         or
1CA8 C3 C2 1C
1CAB
1CAB
1CAB
                                                                      loc_0_1CC2
                                                                                                                                          ; CODE XREF: sub 0 1AC3+381i
                             loc_0_1CAB:
1CAB 06 FF
1CAD 3A 0F 62
1CBO A7
                                                        ld
ld
and
                                                                      a, (unk_0_620F)
1CB1 C2 D2 1C
1CB4 3A 02 62
1CB7 47
1CB8 3E 01
                                                         jp
ld
ld
                                                                      NZ, loc_0_1CD2
a, (unk_0_6202)
                                                         ld
1CBA CD 09 30
1CBD 32 02 62
1CC0 E6 03
1CC2
                                                        call
ld
and
                                                                       sub_0_3009
                                                                       (unk_0_6202), a
                                                                                                                                           ; animate mario running
1CC2
1CC2 21 07 62
1CC5 77
1CC6 1F
1CC7 DC 8F 1D
1CCA 3E 02
1CCC 32 0F 62
1CCC 32 0F 62
                             loc_0_1CC2:
                                                                                                                                          ; CODE XREF: sub_0_1AC3+1E5 j
                                                                      hl, #mario_flipy_sprite_tile
(hl), a
                                                                                                                                          ; set amrio character
                                                         ld
                                                         rra
                                                         call
ld
                                                                      C, sub_0_1D8F
a, #2
                                                                       a, #2
(unk_0_620F), a
                                                         ld
                                                         jр
                                                                      loc_0_1DA6
1CD2
1CD2
                                                                                                                                          ; CODE XREF: sub_0_1AC3+1D2<sup>†</sup>j; sub_0_1AC3+1EE<sup>†</sup>j
1CD2
1CD2 21 03 62
1CD2
1CD5 7E
                            loc_0_1CD2:
                                                        ld
ld
                                                                      hl, #mario_y_coord
                                                                     a, (hl)
a, b
(hl), a
1CD6 80
1CD7 77
1CD8 3A 27 62
1CDB 3D
                                                        add
ld
ld
                                                                      a, (level_type)
                                                         dec
1CDB 3D
1CDC C2 EB 1C
1CDF 66
1CE0 3A 05 62
1CE3 6F
1CE4 CD 33 23
                                                         jp
ld
ld
                                                                      NZ, loc_0_1CEB
h, (hl)
a, (mario_x_coord)
1, a
                                                         ld
                                                                      sub_0_2333
                                                         call
1CE7 7D
1CE8 32 05 62
                                                         ld
ld
                                                                       a, 1
(mario_x_coord), a
1CEB
1CEB
                             loc_0_1CEB:
                                                                                                                                          ; CODE XREF: sub_0_1AC3+219 j
                                                                      hl, #unk_0_620F
1CEB 21 OF 62
1CEE 35
1CEF C3 A6 1D
                                                         ld
                                                                      loc_0_1DA6
                                                         jр
; CODE XREF: sub_0_1AC3+7Afj
                             loc_0_1CF2:
                                                        ld
                                                                      a, (unk_0_620F)
                                                                                                                                           ; check timer
                                                         and
                                                                                                                                           ; expired?
                                                         jp
ld
                                                                      NZ, loc_0_1D8A
                                                                                                                                           ; no, skip
                                                                      (unk_0_620F), a
a, #2
loc_0_1D11
                                                         ld
                                                                                                                                          ; reset timer
                                                         jр
1D03
1D03
1D03
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+87<sup>†</sup> j
                             loc_0_1D03:
                                                        ld
                                                                      a, (unk 0 620F)
                                                                                                                                           ; check timer
                                                                                                                                           ; expired?
                                                         and
                                                                      NZ, loc_0_1D76
                                                                      a, #4
(unk_0_620F), a
a, #0xFE; '•
                                                                                                                                          ; reset timer
                                                         ld
ld
1D11
1D11 21 05 62
                             loc_0_1D11:
                                                                                                                                          ; CODE XREF: sub_0_1AC3+23D|j
                                                         ld
                                                                      hl, #mario_x_coord
1D14 86
1D15 77
1D16 47
1D17 3A 22 62
                                                        add
ld
ld
                                                                      a, (hl)
(hl), a
                                                                      b, a
a, (unk_0_6222)
                                                         ld
1D1A EE 01
1D1C 32 22 62
1D1F C2 51 1D
                                                        xor
ld
jp
ld
                                                                       unk_0_6222),
                                                                     NZ, loc_0_1D51
a, b
a, #8
1D22 78
1D23 C6 08
1D25 21 1C 62
1D28 BE
                                                                      a, #8
hl, #unk_0_621C
(hl)
                                                         add
1d
                                                                                                                                          ; bottom y coordinate of ladder ; stop from climbing
                                                         ср
1D29 CA 67 1D
1D2C 2D
1D2D 96
                                                         jp
dec
sub
                                                                      Z, loc_0_1D67
                                                                       (hl)
                                                                                                                                          ; top y coordinate of ladder
; stop from climbing
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
                                                                      Z, loc_0_1D67
b, #5
                                                         jp
ld
                                                         sub
                                                                      #8
Z, loc_0_1D3F
                                                         jp
dec
                                                         sub
                                                        jp
dec
                                                                       Z, loc_0_1D3F
1D3F
                            loc_0_1D3F:
                                                                                                                                           ; CODE XREF: sub_0_1AC3+272<sup>†</sup> j
```

```
1D3F 3E 80
                                                                                                                                                     ; sub_0_1AC3+278<sup>†</sup> j
                                                                           a, #0x80 ; 'Ç'
hl, #mario_flipy_sprite_tile
(hl)
#0x80 ; 'C'
1D3F
1D3F
1D41 21 07 62
1D44 A6
1D45 EE 80
1D47 B0
                                                             ld
and
xor
                                                                                                                                                     ; hflip mario
                                                             or
1D48 77
1D49
1D49
                                                             ld
                                                                            (hl), a
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+2A1|j; flag mario climbing a ladder
                               loc_0_1D49:
1D49
1D49 3E 01
1D4B 32 15 62
1D4E C3 A6 1D
1D51
                                                             ld
                                                                            a, #1
(mario_climbing), a
loc_0_1DA6
                                                             ld
                                                             jр
1D51
1D51
1D51
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 1D64 C3 49 1D
                               loc_0_1D51:
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+25C|j
                                                             dec
dec
                                                                           1
                                                             ld
or
                                                                           a, (hl)
#3
                                                             res
                                                             1d
                                                                            a, (unk_0_6224)
                                                             ld
xor
ld
                                                                            (unk_0_6224), a
                                                                           Z, sub_0_1D8F
loc_0_1D49
                                                             call
1D61 CC 8F 1D
1D64 C3 49 1D
1D67
1D67
1D67
1D67 3E 06
1D67
1D69 32 07 62
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+266<sup>†</sup>j
; sub_0_1AC3+26B<sup>†</sup>j
; mario climbing character
                               loc_0_1D67:
                                                             ld
ld
                                                                            a, #6
(mario_flipy_sprite_tile), a
1D6C AF
1D6D 32 19 62
1D70 32 15 62
1D73 C3 A6 1D
                                                             xor
ld
ld
                                                                            a
(unk_0_6219), a
(mario_climbing), a
loc_0_1DA6
                                                                                                                                                     ; flaf not climbing a ladder
                                                             jр
1D76
1D76
1D76
1D76
1D76 3A 1A 62
                               loc_0_1D76:
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+244↑j
                                                             1d
                                                                           a, (unk_0_621A)
1D76 3A 1A 62

1D79 A7

1D7A CA 8A 1D

1D7D 32 19 62

1D80 3A 1C 62

1D83 D6 13

1D85 21 05 62

1D88 BE

1D89 D0
                                                             and
jp
ld
                                                                            a
Z, loc_0_1D8A
(unk_0_6219),
                                                                           a, (unk_0_621C)
#0x13
hl, #mario_x_coord
(h1)
                                                             ld
                                                             sub
                                                             cp
ret
1D89 D0
1D8A
1D8A
                                                                                                                                                      ; CODE XREF: sub_0_1AC3+233<sup>†</sup>j
; sub_0_1AC3+2B7<sup>†</sup>j
                               loc_0_1D8A:
1D8A 21 OF 62
1D8A
1D8D 35
1D8E C9
                                                            ld
dec
ret
                                                                           hl, #unk_0_620F (hl)
                               ; End of function sub_0_1AC3
1D8E
1D8F
1D8F
                                                           SUBROUTINE
1D8F
1D8F
1D8F
                                                                                                                                                      ; CODE XREF: sub_0_1AC3+204\uparrowp; sub_0_1AC3+29E\uparrowp; tmr=3
                               sub_0_1D8F:
1D8F 3E 03
1D8F
                                                             ld
1D91 32 80 60
1D94 C9
                                                             ld
ret
                                                                            (digital_snd_tmr_walk), a
                               ; End of function sub_0_1D8F
1D94
1D94
1D95
1D95
                               ; SUBROUTINE
1D95
1D95
1D95
1D95 32 25 62
                                                                                                                                                     ; CODE XREF: sub_0_1A33+86<sup>p</sup>; sub_0_1AC3+1AD<sup>p</sup>
                               sub_0_1D95:
1D95
1D98 3A 27 62
1D9B 3D
1D9C C8
                                                                           (unk_0_6225).
                                                             ld
dec
ret
1D9D 21 8A 60
1DAO 36 0D
1DA2 2C
1DA3 36 03
                                                             ld
ld
                                                                           hl, #unk_0_608A
(hl), #0xD
                                                                            (hl), #3
                                                             1d
1DA5 C9
1DA5
1DA5
                               ret
; End of function sub_0_1D95
1DA6
1DA6
1DA6
1DA6 21 4C 69
1DA6
                                                                                                                                                      ; CODE XREF: sub_0_1AC3+A8<sup>†</sup>j; sub_0_1AC3+161<sup>†</sup>j ...
                               loc_0_1DA6:
                                                                           hl, #soft_sprite_ram+0x4C
                                                             ld
1DA0
1DA9 3A 03 62
1DAC 77
1DAD 3A 07 62
                                                             ld
ld
ld
                                                                                 (mario_y_coord)
                                                                            a, (
(hl)
                                                                            (n1), a
a, (mario_flipy_sprite_tile)
1DAD 3A 07 62

1DB0 2C

1DB1 77

1DB2 3A 08 62

1DB5 2C

1DB6 77

1DB7 3A 05 62

1DBA 2C

1DBA 2C
                                                             inc
ld
ld
                                                                            (hl), a
                                                                           a, (mario_flipx_colour)
                                                             inc
                                                             ld
ld
                                                                           a, (mario_x_coord)
                                                             inc
ld
                                                                            (hl), a
1DBC C9
1DBD
1DBD
                                                             SUBROUTINE
1DBD
1DBD
1DBD
                                                                                                                                                      ; CODE XREF: 0000:127C\(^1\)p ; 0000:1641\(^1\)p ...
                               sub_0_1DBD:
1DBD 3A 40 63
1DBD 1DC0 EF 1DC0 1DC1 49
                                                                           a, (unk_0_6340)
0x28
                                                             ld
                                                             rst
         49 1E
                                                              .dw ret
1DC3 C9 1D
1DC5 4A 1E
1DC7 00
                                                             .dw loc_0_1DC9
.dw loc_0_1E4A
                                                             .db
                                                                         0 ;
0 ;
1DC8 00
                                                              .db
```

```
; DATA XREF: sub 0 1DBD+61o
 1DC9
                            loc 0 1DC9:
1DC9
1DC9 3E 40
1DCB 32 41 63
1DCE 3E 02
1DD0 32 40 63
1DD3 3A 42 63
1DD6 1F
1DD7 DA 70 3E
                                                                     a, #0x40; '@'
(unk_0_6341), a
                                                        ld
ld
                                                                     (unk_0_6340),
                                                        ld
                                                        ld
rra
                                                                     a, (unk_0_6342)
                                                                     C, loc_0_3E70
                                                        jр
                                                        rra
jp
rra
1DDA 1F

1DDB DA 00 1E

1DDE 1F

1DDF DA F5 1D

1DE2 21 85 60

1DE5 36 03

1DE7 3A 29 62

1DEA 3D
 1DDA 1F
                                                                    C, loc_0_1E00
                                                        jp
ld
ld
ld
                                                                     C, loc_0_1DF5
                                                                     hl, #digital_snd_tmr_barrel_jump_priz
(hl) #3
                                                                     (hl), #3
a, (level)
                                                                                                                                        ; tmr=3
                                                        dec
1DEB CA 00 1E
1DEE 3D
1DEF CA 08 1E
1DF2 C3 10 1E
                                                        jp
dec
                                                                     Z, loc_0_1E00
                                                                     Z, award_500_pts
                                                        jр
                                                                     award 800 pts
 1DF5
1DF5
                             loc 0 1DF5:
                                                                                                                                        ; CODE XREF: sub 0 1DBD+221j
 1DF5 3A 18 60
                                                        ld
                                                                     a, (random_no)
 1DF8 1F
1DF9 DA 08 1E
                                                                                                                                        ; 50% chance for 500 pts
; award 500 pts
                                                        rra
jp
                                                                     C, award_500_pts
                                                                                                                                         ; 25% chance for 800 pts
 1DFC
                                                        rra
 1DFD DA 10 1E
                                                        jр
                                                                     C, award_800_pts
                                                                                                                                         ; award 800 pts
                                                                                                                                        ; CODE XREF: sub_0_1DBD+1E<sup>†</sup>j; sub_0_1DBD+2E<sup>†</sup>j; '300' sprite tile; award 3 (300) points
                             loc_0_1E00:
 1E00 06 7D
                                                                     b, \#0x7D; '}' de, \#3
 1E00
                                                        1d
 1E00
1E02 11 03 00
1E05 C3 15 1E
                                                        ld
                                                                     award_points
                                                        jр
 1E08
 1E08
                                                                                                                                        ; CODE XREF: sub_0_1DBD+32\frac{1}{j}
; sub_0_1DBD+3C\frac{1}{j}
; '500' sprite tile
; award 5 (500) points
 1E08
1E08 06 7E
                             award_500_pts:
                                                                     b, #0x7E ; '~'
 1E08
                                                        ld
1E0A 11 05 00
1E0D C3 15 1E
                                                                     de, #5
award_points
                                                        1d
                                                        jp
 1E10
                                                                                                                                          CODE XREF: sub_0_lDBD+35<sup>†</sup>j
sub_0_lDBD+40<sup>†</sup>j
'800' sprite tile
add_bonus_and_update_high_score (800)
 1E10
1E10 06 7F
                             award_800_pts:
                                                                     b, #0x7F ; ' ' de, #8
                                                        ld
1E10
1E12 11 08 00
1E15
1E15
1E15 CD 9F 30
                                                        14
                                                                                                                                           CODE XREF: sub_0_1DBD+48<sup>†</sup> j sub_0_1DBD+50<sup>†</sup> j
                             award_points:
 1E15
1E18 2A 43 63
1E1B 7E
                                                                     queue_fg_vector_fn
hl, (unk_0_6343)
a, (hl)
(hl), #0
                                                        call
                                                                                                                                            schedule award points
                                                        ld
ld
                                                                                                                                           ptr x position
prize x position
1E1B 7E
1E1C 36 00
1E1E 2C
1E1F 2C
1E20 2C
                                                                                                                                         ; erase prize
; go to y position
                                                        ld
                                                        inc
inc
inc
1E21 4E
1E22 C3 36 1E
1E25
1E25 11 01 00
                                                        1d
                                                                          (h1)
                                                                                                                                        ; get y position
; program award sprite
                                                        jр
                                                                     loc_0_1E36
                                                                     de, #1
                                                        ld
                                                                                                                                         ; add bonus and update high score (100)
 1E28
 1E28
1E28 CD 9F 30
                                                                                                                                        ; CODE XREF: 0000:3E76|j; 0000:3E7E|j ...
                             loc_0_1E28:
                                                        call
                                                                     queue fq vector fn
                                                                                                                                         ; schedule award points
 1E28
                                                                     a, (mario_x_coord)
a, #0x14
 1E2B 3A 05 62
1E2E C6 14
1E30 4F
                                                        14
                                                        add
ld
1E30 4F
1E31 3A 03 62
1E34 00
1E35 00
1E36
                                                                     a, (mario_y_coord)
                                                        1d
                                                        nop
                                                                                                                                        ; CODE XREF: sub_0_1DBD+65fj
; add bonus points sprite to display
1E36 1 30 6A 1E39 77 1E3A 2C 1E3B 70 1E3C 2C 1E3D 36 07 1E3F 2C 1E40 71 1E41 3E 05 1E43 F7 1E44 21 85 60
 1E36
                             loc_0_1E36:
                                                        ld
ld
                                                                    hl, #soft_sprite_ram+0x130
(hl), a
                                                        inc
                                                                     (hl), b
                                                        ld
inc
                                                                      (hl), #7
                                                        inc
                                                                     (hl), c
a, #5
0x30
                                                        1d
                                                        ld
                                                                                                                                        ; return if level bit not set
                                                        rst
1E44 21 85 60
1E47 36 03
1E49
                                                                     hl, #digital_snd_tmr_barrel_jump_priz (hl), #3
                                                        ld
                                                                                                                                        ; tmr=3
                                                                                                                                        ; DATA XREF: sub 0 1DBD+41o
 1E49
1E49 C9
                             ret:
                                                        ret
 1E49
1E49
                             ; End of function sub_0_1DBD
 1E4A
1E4A
1E4A
1E4A 21 41 63
1E4D 35
                             loc_0_1E4A:
                                                                                                                                        ; DATA XREF: sub_0_1DBD+8 o
                                                                     hl, #unk_0_6341
(hl)
                                                        ld
                                                        dec
1E4D 35

1E4E C0

1E4F AF

1E50 32 30 6A

1E53 32 40 63

1E56 C9

1E57

1E57

1E57

1E57

1E57 3A 27 62

1E5A CB 57
                                                        ret
xor
ld
                                                                     NZ
                                                                      (soft_sprite_ram+0x130), a
                                                        ld
                                                                     (unk_0_6340), a
                                                       SUBROUTINE
                                                                                                                                        ; CODE XREF: 0000:19B9↑p
                             sub_0_1E57:
a, (level_type)
2, a
                                                        1d
                                                        bit
                                                        jp
rra
                                                                     NZ, loc_0_1E80
                                                                     a, (mario_x_coord)
                                                        ld
                                                                    C, loc_0_1E7A
#0x51; 'Q'
NC
a, (mario_y_coord)
                                                        jp
                                                        ср
                                                        ret
1E69 3A 03 62
1E6C 17
                                                        1d
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
1E6D
                                                                                                                               ; CODE XREF: sub 0 1E57+26-i
1E6D
                          loc 0 1E6D:
1E6D 3E 00
1E6F DA 74 1E
1E72 3E 80
1E74
                                                                a, #0
C, loc_0_1E74
a, #0x80; 'Ç
                                                    ld
                                                    jp
ld
1E74
1E74 32 4D 69
1E77 C3 85 1E
                           loc_0_1E74:
                                                                                                                               ; CODE XREF: sub_0_1E57+18 j
                                                                (soft_sprite_ram+0x4D), a
loc_0_1E85
                                                    jр
1E7A
1E7A
1E7A
1E7A FE 31
                                                                                                                               ; CODE XREF: sub_0_1E57+C^j
                           loc_0_1E7A:
                                                                 #0x31 ; '1'
                                                    ср
1E7C D0
1E7D C3 6D 1E
1E80
1E80
                                                    ret
                                                                 loc_0_1E6D
1E80
                          loc_0_1E80:
                                                                                                                               ; CODE XREF: sub_0_1E57+5 j
1E80 3A 90 62
1E83 A7
1E84 C0
                                                    ld
                                                                a, (unk_0_6290)
                                                    and
                                                    ret
                                                                NZ
1E85
1E85
1E85 3E 16
1E87 32 0A 60
                           loc_0_1E85:
                                                                                                                               ; CODE XREF: sub_0_1E57+20 j
                                                                a, #0x16
                                                    ld
                                                    ld
                                                                 (main_sequencer), a
1E8A E1
1E8B C9
                                                   pop
ret
                           ; End of function sub_0_1E57
1E8B
1E8B
1E8C
1E8C
1E8C
                           ; SUBROUTINE
1E8C
1E8C
1E8C
1E8C 3A 50 63
1E8F A7
1E90 C8
1E91 CD 96 1E
1E95 C9
                           sub_0_1E8C:
                                                                                                                               ; CODE XREF: 0000:197D|p
                                                    ld
                                                                a, (unk_0_6350)
                                                    and
                                                    ret
call
                                                                  -
sub_0_1E96
                                                    pop
                                                                hl
1E95 C9
1E95
1E95
1E96
                                                    ret
                           ; End of function sub_0_1E8C
1E96
1E96
1E96
                                                   SUBROUTINE
1E96
                           sub 0 1E96:
                                                                                                                               ; CODE XREF: sub 0 1E8C+5 p
1E96 3A 45 63
1E99 EF
1E99
                                                                a, (unk_0_6345)
0x28
                                                    14
                                                    rst
1E9A A0 1E
1E9C 09 1F
1E9E 23 1F
1EA0
                                                    .dw loc_0_1EA0 .dw loc_0_1F09 .dw loc_0_1F23
                                                                                                                                ; Jump table
1EA0
1EA0
1EA0 3A 52 63
1EA3 FE 65
                          loc_0_1EA0:
                                                                                                                               ; DATA XREF: sub_0_1E96+4\u00e10 o ; hammer just hit something
                                                    ld
                                                                     (unk_0_6352)
                                                    cp
ld
                                                                #Ux65; 'e'
hl, #soft_sprite_ram+0xB8
Z, loc_0_1EB4
hl, #soft_sprite_ram+0xD0
C, loc_0_1EB4
1EA5 21 B8 69
1EA8 CA B4 1E
1EAB 21 D0 69
1EAE DA B4 1E
                                                                                                                               ; process hammer hit effect (start)
                                                                                                                               ; fireball area in sprite ram
                                                    jp
ld
                                                                hl, #soft_sprite_ram+0x80
1EB1 21 80 69
1EB4
1EB4 DD 2A 51 63
                                                                                                                               ; CODE XREF: sub_0_1E96+12<sup>†</sup> j ; sub_0_1E96+18<sup>†</sup> j
                           loc_0_1EB4:
1EB4
1EB8 16 00
1EBA 3A 53 63
1EBD 5F
                                                                ix, (unk_0_6351)
d, #0
                                                    14
                                                    ld
ld
ld
                                                                a, (unk_0_6353)
e, a
1EBE 01 04 00
1EC1 3A 54 63
1EC4 A7
                                                    ld
ld
                                                                bc, #4
a, (unk_0_6354)
                                                    and
1EC4 A/
1EC5 CA CF 1E
1EC8
1EC8
1EC8 09
                                                                Z, loc_0_1ECF
                                                    jp
                          loc_0_1EC8:
                                                                                                                               ; CODE XREF: sub_0_1E96+36|j
                                                                hl. bc
                                                    add
1EC9 DD 19
1ECB 3D
1ECC C2 C8 1E
1ECF
                                                    add
dec
                                                                ix, de
                                                                NZ, loc_0_1EC8
                                                    jр
1ECF
                          loc_0_1ECF:
                                                                                                                               ; CODE XREF: sub_0_1E96+2F1j
0(ix), #0
a, 0x15(ix)
a
                                                    ld
ld
                                                    and
                                                                a, #2
Z, loc_0_1EDE
                                                    ld
                                                    jp
ld
                                                                a, #4
1EDE
1EDE 32 42 63
1EE1 01 2C 6A
                           loc_0_1EDE:
                                                                (unk_0_6342), a
bc, #soft_sprite_ram+0x12C
a, (h1)
                                                                                                                               ; CODE XREF: sub_0_1E96+43 j
                                                    ld
ld
1EE4 7E
1EE5 36 00
1EE7 02
1EE8 0C
                                                    ld
ld
ld
                                                                a, (hl)
(hl), #0
(bc), a
                                                                                                                               ; flash sprite x coord
1EE8 0C
1EE9 2C
1EEA 3E 60
1EEC 02
1EED 0C
1EEE 2C
1EEF 3E 0C
1EFF 3E 0C
1EFF 2 0C
1EFF 2 0C
1EFF 2 1 45 63
1EFF 2 2C
1EFF 3E 0C
1EFF 3E 0C
                                                    inc
                                                    inc
                                                    ld
ld
                                                                a, #0x60; '`'
(bc), a
                                                                                                                               ; initial hit sprite character ; flash sprite character
                                                    inc
                                                    inc
ld
ld
                                                                    #0xC
```

a, #0xC (bc), a

(hl) a, (h1)
(bc), a
h1, #unk_0_6345
(h1)

l (hl), #6

(h1), #5 h1, #unk_0_608A (h1), #6

; flash sprite y coord

inc inc ld

ld ld

inc

ld

ld ld

1d

1EFD 2C 1EFE 36 05 1F00 21 8A 60

1F03 36 06 1F05 2C

```
1F06 36 03
                                                                              (hl), #3
                                                               ld
 1F08 C9
                                                               ret
 1F08
1F08
1F09
                                 ; End of function sub_0_1E96
 1F09
1F09
1F09 21 46 63
1F0C 35
1F0D C0
                                 loc_0_1F09:
                                                                                                                                                          ; DATA XREF: sub_0_1E96+6↑o ; process hammer hit effect (middle)
                                                                              hl, #unk_0_6346
(hl)
                                                               ld
dec
                                                               ret
                                                                              NZ
1F0D CO

1F0E 36 06

1F10 2C

1F11 35

1F12 CA 1D 1F

1F15 21 2D 6A

1F18 7E

1F19 EE 01
                                                               ld
inc
dec
                                                                              (hl), #6
                                                                              1
(hl)
                                                                              Z, loc_0_1F1D
h1, #0x6A2D
a, (h1)
#1
                                                               jp
ld
ld
                                                                                                                                                          ; animate hit flash
                                                               xor
1F19 EE
1F1B 77
1F1C C9
1F1D
1F1D
1F1D 36
1F1F 2D
                                                                              (hl), a
                                                               1d
1F1D

1F1D 36 04

1F1F 2D

1F1F 2D

1F20 2D

1F21 34

1F22 C9

1F23

1F23

1F23 1

1F23 21 46 63

1F26 35

1F27 C0

1F28 36 0C

1F28 36 0C

1F28 35

1F20 C3 34 1F
                                 loc_0_1F1D:
                                                                                                                                                          ; CODE XREF: 0000:1F12<sup>†</sup> †
                                                               ld
                                                                              (hl), #4
                                                               dec
dec
                                                                              (hl)
                                                                                                                                                          ; DATA XREF: sub_0_1E96+8\u00e10 o ; process hammer hit effect (end)
                                 loc_0_1F23:
                                                                              hl, #unk_0_6346
(hl)
                                                               ld
                                                               dec
                                                               ret
ld
                                                                              (hl), #0xC
                                                               inc
                                                                              1
(h1)
1F2B 35
1F2C CA 34 1F
1F2F 21 2D 6A
1F32 34
1F33 C9
1F34
1F34
1F34 2D
1F35 2D
1F35 2D
1F36 AF
1F37 77
1F38 32 50 63
1F3B 3C
1F3C 32 40 63
1F3B 3C
1F3C 32 40 63
1F3F 21 2C 6A
1F3C 22 43 63
1F45 C9
1F46
1F46
                                                                              (n1)

Z, loc_0_1F34

hl, #soft_sprite_ram+0x12D

(hl)
                                                               jp
1d
                                                                                                                                                          ; animate hit flash
                                                               inc
                                                               ret
                                 loc 0 1F34:
                                                                                                                                                          ; CODE XREF: 0000:1F2C<sup>†</sup>j
                                                               dec
                                                               dec
                                                                              a (hl), a
                                                               ld
ld
inc
ld
                                                                               (unk_0_6350), a
                                                                                                                                                         ; stop effect process
                                                                               (unk_0_6340), a
                                                                              hl, #soft sprite ram+0x12C
                                                               ld
                                                              ld
ret
                                                                               (unk_0_6343), hl
1F46
1F46
1F46
1F46
                                                             SUBROUTINE
1F46 3A 21 62 1F49 A7 1F4A C8 1F4B AF 1F4C 32 04 62 1F52 32 21 62 1F55 32 10 62 1F5B 32 12 62 1F6B 32 14 62 1F6B 32 15 62 1F6B 3A 05 62 1F6B 3A 05 62 1F71 C9 1F71 1F71
                                                                                                                                                         ; CODE XREF: 0000:19A41p
                                 sub_0_1F46:
                                                                             a, (unk_0_6221)
a
Z
                                                              ld
and
ret
                                                               xor
ld
                                                                              (unk_0_6204), a
(unk_0_6206), a
(unk_0_6221), a
                                                               ld
ld
ld
ld
ld
ld
                                                                              (unk_0_6210),
(unk_0_6211),
(unk_0_6212),
(unk_0_6213),
                                                                              (unk_0_6214), a
                                                                              (mario_jumping), a
(unk_0_621F), a
a, (mario_x_coord)
                                                               ld
                                                               1d
                                                               ld
                                                                              (unk_0_620E),
                                                               ret
                                 ; End of function sub_0_1F46
SUBROUTINE
                                 sub_0_1F72:
                                                                                                                                                          ; CODE XREF: 0000:19831p
                                                               ld
                                                                              a, (level type)
                                                                              a
NZ
ix, #unk_0_6700
                                                               dec
                                                               ret
ld
                                                                              hl, #soft_sprite_ram+0x80
de, #0x20; ' '
                                                               ld
ld
                                                               ld
                                                                                   #0xA
                                 loc_0_1F83:
                                                                                                                                                         ; CODE XREF: sub_0_1F72+1E|j
1F83 DD 7E 00
1F86 3D 1F87 CA 93 1F
1F8A 2C 1F8B 2C 1F8C 2C 1F8C 2C
                                                               ld
dec
jp
                                                                              a, 0(ix)
                                                                              Z, loc_0_1F93
                                                               inc
1F8B
1F8C
1F8D
                                                                                                                                                         ; CODE XREF: 0000:21CE-i
 1F8D
                                loc 0 1F8D:
1F8D 2C
1F8E DD 19
1F90 10 F1
1F92 C9
                                                               add
djnz
                                                                              ix, de
                                                                              loc_0_1F83
                                                                                                                                                         ; CODE XREF: sub 0 1F72+15 † j
                                loc 0 1F93:
 1F93 DD 7E 01
                                                               ld
                                                                              a, 1(ix)
 1F96 3D
1F97 CA EC 20
1F9A DD 7E 02
1F9D 1F
                                                               dec
jp
ld
                                                                              a
Z, loc_0_20EC
                                                                              a, 2(ix)
                                                               rra
jp
rra
 1F9E DA AC 1F
1FA1 1F
                                                                              C, loc_0_1FAC
 1FA2 DA E5 1F
                                                               jp
rra
                                                                              C, loc 0 1FE5
```

```
1FA6 DA EF 1F
1FA9 C3 53 20
                                                                                    C, loc_0_1FEF
loc_0_2053
1FA9 C3 53 20
1FAC
1FAC
1FAC D9
1FAD DD 34 05
1FB0 DD 7E 15
1FB3 DD BE 05
1FB6 C2 CE 1F
1FB0 D7
1FBC 07
1FBC 07
1FBC 06 15
                                                                                                                                                                      ; CODE XREF: sub_0_1F72+2C|j
                                   loc_0_1FAC:
                                                                    exx
                                                                                    5(ix)
a, 0x17(ix)
5(ix)
                                                                    inc
                                                                    ср
                                                                                    NZ, loc_0_1FCE
a, 0x15(ix)
                                                                   jp
ld
rlca
rlca
add
ld
ld
                                                                                    a, #0x15
7(ix), a
a, 2(ix)
#7
                                                                                                                                                                     ; switch downwards (sideways) barrel to rolling barrel
                                                                    xor
                                                                                     2(ix).
                                                                    1d
                                                                    jp
                                                                                    loc_0_21BA
                                                                                                                                                                      ; CODE XREF: sub_0_1F72+44<sup>†</sup> j ; sub_0_1F72+199<sup>†</sup> j
                                   loc_0_1FCE:
                                                                                    a, 0xF(ix)
                                                                    ld
                                                                    dec
                                                                    jp
ld
                                                                                    NZ, loc_0_1FDF
a, 7(ix)
#1
                                                                                                                                                                      ; animate sideways barrel sprite
                                                                    xor
                                                                                    7(ix), a
                                                                    14
                                   loc_0_1FDF:
                                                                                                                                                                      ; CODE XREF: sub_0_1F72+60 j
1FDF
1FDF DD 77 OF
1FE2 C3 BA 21
1FE5
1FE5
                                                                                    0xF(ix), a
loc_0_21BA
                                                                    1d
1FE5
1FE5 D9
1FE6 01 00 01
1FE9 DD 34 03
1FEC C3 F6 1F
1FEF
1FEF
                                                                                                                                                                      ; CODE XREF: sub_0_1F72+30 ij
                                   loc_0_1FE5:
                                                                                    bc, #0x100
                                                                    ld
                                                                                     3(ix)
                                                                    inc
                                                                                    loc_0_1FF6
1FEF
1FEF D9
1FF0 01 04 FF
1FF3 DD 35 03
1FF6
                                                                                                                                                                      ; CODE XREF: sub 0 1F72+341 i
                                   loc_0_1FEF:
                                                                    exx
ld
                                                                                    bc, #0xFF04
                                                                   dec
                                                                                    3(ix)
1FF6
1FF6 DD 66 03
1FF9 DD 6E 05
1FFC 7C
1FFD E6 07
1FFF FE 03
                                   loc_0_1FF6:
                                                                                                                                                                      ; CODE XREF: sub_0_1F72+7A j
                                                                                    h, 3(ix)
1, 5(ix)
                                                                    1d
                                                                    ld
and
                                                                                    a, h
#7
                                                                    ср
2001 CA 5F 21
2004 2D
2005 2D
2006 2D
                                                                    jp
dec
dec
dec
                                                                                    Z, loc_0_215F
2006 2D
2007 CD 33 23
200A 2C
200B 2C
200C 2C
200D 7D
                                                                    call
inc
inc
                                                                                    sub_0_2333
                                                                    inc
ld
                                                                                    1
a, 1
5(ix), a
sub_0_23DE
sub_0_24B4
a, 3(ix)
#0x1C
C, loc_0_202F
#0xE4; 'ö'

200D 77 05
200E DD 77 05
2011 CD DE 23
2014 CD B4 24
2017 DD 7E 03
201A FE 1C
201C DA 2F 20
201F FE 64
2021 DA BA 21
2024 AF
2021 DA BA 21
2024 AF
2025 DD 77 10
2028 DD 36 11 60
202C C3 38 20
202F
202F
202F
                                                                    ld
call
                                                                    call
ld
cp
jp
cp
jp
xor
                                                                                    C, loc_0_21BA
                                                                                    a
0x10(ix), a
0x11(ix), #0x60 ; '`'
                                                                    ld
                                                                    1d
                                                                                    loc_0_2038
202F
202F AF
2030 DD 36 10 FF
2034 DD 36 11 A0
                                 loc_0_202F:
                                                                                                                                                                     ; CODE XREF: sub_0_1F72+AA j
                                                                    xor
ld
                                                                                    a
0x10(ix), #0xFF
0x11(ix), #0xA0 ; 'á'
2034 DD 36 11 A0
2038 loc_0_2038:
2038 DD 36 12 FF
203C DD 36 13 F0
2040 DD 77 14
2043 DD 77 0E
2046 DD 77 04
2049 DD 77 06
2040 DD 77 06
2040 DD 36 02 08
2050 C3 BA 21
2053 ;
                                                                    ld
                                                                                                                                                                      ; CODE XREF: sub_0_1F72+BA j
                                                                                    0x12(ix), #0xFF
0x13(ix), #0xF0; '-'
0x14(ix), a
0xE(ix), a
                                                                    ld
                                                                    ld
                                                                    ld
ld
                                                                                    4(ix), a
6(ix), a
2(ix), #8
                                                                    ld
ld
                                                                    ld
                                                                    jp
                                                                                    loc_0_21BA
2053 2053 2053 2053 2053 2054 2D 9c 25 2054 2D 2F 2A 205A A7 205B C2 83 20 205E DD 7E 03 2061 C6 0 8 2063 FE 10 2065 DA 79 20 2068 CD B4 24 206B DD 7E 10 2066 E6 01 2067 077 077
                                  loc_0_2053:
                                                                                                                                                                     ; CODE XREF: sub_0_1F72+37 j
                                                                    exx
call
                                                                                    sub 0 239C
                                                                    call
and
jp
ld
                                                                                    sub_0_2A2F
                                                                                    NZ, loc_0_2083
                                                                                    a, 3(ix)
a, #8
#0x10
                                                                    add
cp
                                                                                    C, loc_0_2079
sub_0_24B4
                                                                    jp
call
                                                                    ld
and
                                                                    rlca
                                                                    rlca
 2072 4F
2073 CD DE 23
2076 C3 BA 21
                                                                    ld
call
                                                                                    c, a sub_0_23DE
                                                                    jр
                                                                                    loc 0 21BA
                                   loc_0_2079:
                                                                                                                                                                      ; CODE XREF: sub_0_1F72+F3 j
 2079 AF
 207A DD 77 00
                                                                                    0(ix), a
```

```
ld
                                                                                      3(ix), a loc_0_21BA
 2080 C3 BA 21
                                                                                                                                                                         ; CODE XREF: sub_0_1F72+E9<sup>†</sup>j
                                    loc_0_2083:
 2083 DD 34 0E
2086 DD 7E 0E
2089 3D
208A CA A2 20
                                                                                     0xE(ix)
                                                                     ld
dec
jp
dec
                                                                                      a, 0xE(ix)
                                                                                      a
Z, loc_0_20A2
208A CA A2 20
208D 3D
208E CA C3 20
2091 DD 7E 10
2094 3D
2095 3E 04
2097 C2 9C 20
209A 3E 02
                                                                                     Z, loc_0_20C3
a, 0x10(ix)
                                                                     jp
ld
                                                                     dec
                                                                                     a, #4
NZ, loc_0_209C
a, #2
                                                                     ld
209C
209C DD 77 02
209F C3 BA 21
                                   loc_0_209C:
                                                                                                                                                                         ; CODE XREF: sub_0_1F72+125 j
                                                                                      2(ix), a
loc_0_21BA
                                                                     ld
                                                                     jр
20A2
20A2
20A2
20A2 DD 7E 15
20A5 A7
20A6 C2 B5 20
20AC DD 7E 05
20AC DD 7E 05
20AF D6 16
20B1 BE
20B2 D2 C3 20
20B5
20B5
 20A2
                                    loc_0_20A2:
                                                                                                                                                                         ; CODE XREF: sub_0_1F72+118 j
                                                                                     a, 0x15(ix)
                                                                     ld
                                                                     and
                                                                                     NZ, loc_0_20B5
hl, #mario_x_coord
                                                                                     a, 5(ix)
#0x16
                                                                     ld
                                                                     sub
                                                                                                                                                                         ; check har far mario has fallen when jumping
                                                                     ср
                                                                                       (hl)
                                                                                      NC, loc_0_20C3
                                                                     jр
20B5
20B5 DD 7E 10
20B8 A7
20B9 C2 E1 20
                                   loc_0_20B5:
                                                                                                                                                                         ; CODE XREF: sub 0 1F72+134 j
                                                                     ld
                                                                                     a, 0x10(ix)
                                                                     and
                                                                                      NZ, loc_0_20E1
                                                                     jp
ld
20BC DD 77 11
20BF DD 36 10 FF
20C3
                                                                                      0x11(ix), a
0x10(ix), #0xFF
20C3 20C3 20C3 CD 07 24 20C3 CB 3C 20C6 CB 3C 20C6 CB 1D 20C6 CB 1D 20C6 CB 1D 74 12 20D1 DD 75 13 20D4 AF 20D5 DD 77 04 20D8 DD 77 04 20D8 DD 77 06 20DC C3 BA 21 20E1
                                                                                                                                                                         ; CODE XREF: sub_0_1F72+11C<sup>†</sup>j; sub_0_1F72+140<sup>†</sup>j ...
                                   loc 0 20C3:
                                                                                      sub_0_2407
                                                                     call
                                                                     srl
                                                                                      h
1
                                                                     rr
                                                                     srl
rr
                                                                                      0x12(ix), h
0x13(ix), l
                                                                     ld
                                                                     ld
                                                                     xor
ld
                                                                                      a
0x14(ix), a
                                                                     ld
                                                                                      4(ix), a 6(ix), a
                                                                     ld
                                                                     jp
                                                                                      loc_0_21BA
 20E1
 20E1
 20E1
20E1 DD 36 10 01
20E5 DD 36 11 00
                                   loc_0_20E1:
                                                                                                                                                                         ; CODE XREF: sub_0_1F72+147<sup>†</sup> j
                                                                                      0x10(ix), #1
0x11(ix), #0
20E5 DD 36 11
20E9 C3 C3 20
20EC
20EC
20EC
20EC D9
20ED CD 9C 23
20F0 7C
20F1 D6 1A
20F3 DD 46 19
20F6 D8 40
20F7 DA 04 21
20FA CD 2F 2A
20FD A7
20FE C2 18 21
2101 CD B4 24
                                                                     ld
                                                                                      loc_0_20C3
                                                                                                                                                                         ; CODE XREF: sub_0_1F72+25 j
                                   loc 0 20EC:
                                                                     exx
                                                                                      sub_0_239C
a, h
#0x1A
                                                                     call
ld
                                                                     sub
                                                                     ld
cp
                                                                                      b, 0x19(ix)
                                                                                           loc_0_2104
                                                                     jр
                                                                     call
and
                                                                                      sub_0_2A2F
                                                                                     NZ, loc_0_2118
sub_0_24B4
                                                                     jp
call
2104
2104
2104 DD 7E 03
2107 C6 08
                                    loc_0_2104:
                                                                                                                                                                        ; CODE XREF: sub_0_1F72+185<sup>†</sup>j
                                                                     ld
                                                                                      a, 3(ix)
                                                                     add
                                                                                      a. #8
2107 C6 08
2109 FE 10
210B D2 CE 1F
210E AF
210F DD 77 00
2112 DD 77 03
2115 C3 BA 21
2118
                                                                     cp
jp
                                                                                      NC, loc_0_1FCE
                                                                     xor
                                                                                     a
0(ix), a
                                                                     ld
                                                                                      3(ix), a
loc_0_21BA
                                                                     ld
                                                                     jр
 2118
                                   loc_0_2118:
                                                                                                                                                                         ; CODE XREF: sub_0_1F72+18C<sup>†</sup>j
2118 DD 7E 05
2118 FE E0
2110 DA 46 21
2120 DD 7E 07
2123 E6 FC
2125 F6 01
2127 DD 77 07
2123 AF
2128 DD 77 01
2122 DD 77 02
2131 DD 36 10 FF
2135 DD 77 11
2138 DD 77 11
2138 DD 76 13 B0
213F DD 36 0E 01
2143 C3 53 21
2146
2146
2146
2146
2146
2146 CD 07 24
2149 CD CB 22
214C DD 7E 05
214F DD 77 19
2152 AF
2153
216
                                                                                     a, 5(ix)

#0xE0; 'Ó'

C, loc_0_2146

a, 7(ix)

#0xFC; '3'
                                                                     cp
jp
ld
and
or
                                                                                                                                                                         ; switch falling (sideways) barrel to rolling bounce barrel
                                                                     ld
xor
ld
ld
                                                                                      7(ix), a
                                                                                      2(ix), a
                                                                                     2(ix), a

0x10(ix), #0xFF

0x11(ix), a

0x12(ix), a

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

0xE(ix), #1
                                                                     ld
ld
ld
                                                                     ld
                                                                     ld
                                                                                      loc_0_2153
                                                                     jр
                                   loc_0_2146:
                                                                                                                                                                         ; CODE XREF: sub_0_1F72+1AB j
                                                                     call
                                                                                      sub_0_2407
                                                                     call
ld
                                                                                      sub_0_22CB
a, 5(ix)
                                                                                     a, 5(ix)
0x19(ix), a
                                                                     ld
                                                                     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
                                                                                      4(ix), a 6(ix), a
                                                                     ld
                                                                     1d
                                                                                      loc_0_21BA
```

```
215F
215F
215F 7D
2160 C6 05
                                loc_0_215F:
                                                                                                                                                              ; CODE XREF: sub_0_1F72+8F<sup>†</sup> j
                                                                               a, 1
a, #5
d, a
a, h
bc, #0x15
sub_0_216D
                                                                ld
add
2162 57
2163 7C
2164 01 15 00
2167 CD 6D 21
                                                                ld
ld
ld
                                                                 call
216A C3 BA 21
                                 jp loc_0_21BA
; End of function sub_0_1F72
216A
216A
216D
216D
216D
216D
216D
216D
                                                               SUBROUTINE
                                                                                                                                                              ; CODE XREF: sub_0_1F72+1F5 p
216D CD 6E 23

2170 3D 2171 CO

2172 78 2173 D6 05

2175 DD 77 17

2178 3A 48 63

2178 A7

217C CA B2 21

217F 3A 05 62

2182 D6 04

2184 BA

2185 D8

2186 3A 80 63

2189 1F

2188 3C
                                 sub 0 216D:
                                                                call
dec
ret
                                                                                sub_0_236E
                                                                                ΝZ
                                                                 1d
                                                                                a, b
#5
                                                                 sub
ld
                                                                                0x17(ix), a
a, (unk_0_6348)
                                                                 ld
                                                                 and
                                                                                Z, loc_0_21B2
a, (mario_x_coord)
#4
                                                                 jp
ld
                                                                 sub
                                                                 cp
ret
ld
                                                                                d
                                                                               C
a, (unk_0_6380)
                                                                 rra
218A 3C
218B 47
218C 3A 18 60
218F 4F
                                                                 inc
ld
ld
                                                                               b, a
a, (random_no)
c, a
#3
                                                                 ld
218F 4F
2190 E6 03
2192 B8
2193 D0
2194 21 10 60
2197 3A 03 62
219A BB
219B CA B2 21
219E D2 A9 21
21A1 CB 46
21A3 CA AE 21
21A6 C3 B2 21
21A9
                                                                and
cp
ret
ld
                                                                                hl. #controller in
                                                                               ld
cp
                                                                                      (mario_y_coord)
                                                                 jp
jp
bit
jp
                                                                                                                                                              ; right?
; no, skip
                                                                 jp
21A9
21A9
21A9
21A9
21A9 CB 4E
                                                                                                                                                              ; CODE XREF: sub_0_216D+31 j
                                 loc_0_21A9:
                                                                                1, (h1)
NZ, loc_0_21B2
                                                                bit
                                                                                                                                                              ; left?
21AB C2 B2 21
21AE
21AE
                                                                                                                                                              ; yes, skip
                                                                 jр
                                loc_0_21AE:
                                                                                                                                                              ; CODE XREF: sub_0_216D+36 j
                                                                                a, c
#0x18
NZ
21AE
                                                                1d
21AE 79
21AF E6 18
21B1 C0
21B2
                                                                 and
                                                                 ret
21B2
21B2 DD 34 07
21B2
                                                                                                                                                              ; CODE XREF: sub_0_216D+F<sup>†</sup>j
; sub_0_216D+2E<sup>†</sup>j ...
; sprite tile #
; switch rolling barrel to going-down-ladder barrel
                                loc_0_21B2:
                                                                                7(ix)
0, 2(ix)
21B5 DD CB 02 C6
                                                                set
21B9 C9
                                                                ret
                                 ; End of function sub_0_216D
21BA
21 BA
21BA
21BA D9
                                                                                                                                                              ; CODE XREF: sub_0_1F72+59<sup>†</sup>j; sub_0_1F72+70<sup>†</sup>j ...
                                 loc_0_21BA:
21BA
                                                                 exx
21BB DD 7E 03
21BE 77
                                                                 ld
ld
                                                                                a, 3(ix)
(hl), a
                                                                                                                                                              ; set sprite X
                                                                               1
a. 7(ix)
21BF
                                                                 inc
21C0 DD 7E 07
21C3 77
                                                                               a, 7(ix (hl), a
                                                                 1d
                                                                                                                                                              ; set sprite tile #
                                                                 ld
21C3 77
21C4 2C
21C5 DD 7E 08
                                                                                1
a, 8(ix)
                                                                 inc
ld
                                                                                                                                                              ; set sprite vflip & palette
                                                                ld
inc
ld
                                                                                (hl), a
21C8
21C6 .
21C9 2C
21CA DD 7E 05
21CD 77
22 8D 1F
                                                                                l
a, 5(ix)
(hl), a
                                                                                                                                                              ; set sprite Y
                                                                 ld
                                                                                loc_0_1F8D
21CE C3 8D 1F
21CE 23 0D
21CE
21D1 80 FE
                                                                                                                                                              ; DATA XREF: next_attract_action or is lst byte is input, 2nd is timer
                                 attract mario inputs:.dw 0xFE80
21D1
21D1
21D3 01 C0
21D5 04 50
21D7 02 10
21D9 82 60
21DB 02 10
21DD 82 CA
21DF 01 10
                                                                 .dw 0xC001
.dw 0x5004
                                                                 .dw 0x5001
.dw 0x5004
.dw 0x1002
.dw 0x6082
                                                                 .dw 0x1002
.dw 0xCA82
.dw 0x1001
21E1 81 FF
21E3 02 38
21E5 01 80
21E7 02 FF
                                                                 .dw 0xFF81
.dw 0x3802
.dw 0x8001
.dw 0xFF02
21E7 02 FF
21E9 04 80
21EB 04 60
21ED 80
                                                                .dw 0x8004
.dw 0x6004
.db 0x80
21EE
21EE
21EE
21EE
21EE
                                                              SUBROUTINE
                                                                                                                                                              ; CODE XREF: 0000:19771p
21EE
                                 next attract action:
21EE 21EE 11 21F1 21 21F5 07 21F6 83 21F7 5F 21F8 1A 21F9 32 21FC 2C 21FD 7E 21FE 35
                                                                               de, #attract_mario_inputs
hl, #attract_movement_entry
a, (hl)
         11 D1 21
21 CC 63
7E
07
83
5F
                                                                 ld
ld
                                                                                                                                                              ; get entry
; convert to word
; add to base
; ptr to entry
; lst byte of entry
                                                                 ld
                                                                 rlca
                                                                 add
ld
                                                                                a, (de)
                                                                 1d
                                                                ld
inc
ld
               10 60
                                                                                 (controller_in), a
                                                                                                                                                                 store simulated inputs
                                                                                a, (hl) (hl)
                                                                                                                                                              ; get movement timer
; done?
                                                                 dec
21FF A7
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
 2200 CO
                                                              ret
                                                                             NZ
                                                                            e
a, (de)
(hl), a
2201 1C
2202 1A
2203 77
2204 2D
                                                                                                                                                            ptr 2nd byte of entry
get 2nd byte
store as timer
back to entry
                                                              ld
                                                              ld
dec
inc
2204 2D
2205 34
2206 C9
2206
                                                                             (hl)
                                                                                                                                                         ; next entry
                                                              ret
                                ; End of function next_attract_action
2207
2207
2207
2207
                                                           SUBROUTINE
sub_0_2207:
                                                                                                                                                        ; CODE XREF: 0000:199B p
                                                                             a, #2
0x30
                                                              ld
                                                              rst
ld
                                                                                                                                                        ; return if level bit not set
                                                                             a, (gen_purpose_timer)
                                                              rra
ld
ld
                                                                            hl, #unk_0_6280
a, (hl)
C, loc_0_2219
hl, #unk_0_6288
a, (hl)
                                                              jp
ld
                                                                                                                                                        ; CODE XREF: sub_0_2207+B<sup>†</sup>j
                                loc_0_2219:
                                                              push
rst
                                                                            hl
0x28
                                                                                                                                                        ; go!
                                                              daa
                                                              ld
sbc
ld
                                                                             (loc_0_2259), hl
                                                                             (loc_0_22A2), hl
                                                              nop
nop
nop
                                                              pop
inc
dec
jp
dec
2227 E1
2228 2C
2229 35
222A C2 3A 22
222D 2D
222E 34
222F 2C
2231 CD 43 22
2234 3E 01
2236 32 1A 62
2239 C9
223A
223A
                                                                             1
(hl)
                                                                             NZ, loc_0_223A
                                                              inc
inc
inc
                                                                              (h1)
                                                              call
                                                                             sub_0_2243
                                                              ld
ld
                                                                             a, #1
(unk_0_621A), a
                                                              ret
223A
223A
223A
223A
223B CD 43 22
223E AF
223F 32 1A 62
2242 C9
2242
2242
2243
2243
                                loc_0_223A:
                                                                                                                                                       ; CODE XREF: sub_0_2207+23 j
                                                              call
xor
ld
                                                                              sub_0_2243
                                                                             (unk_0_621A), a
                                                              ret
                                 ; End of function sub_0_2207
2243 2243 2243 2243 2243 2243 3A 05 62 2243 32 2246 FE 7A 2248 D2 57 22 224B 3A 16 62 224F C2 57 22 2255 BE 2257 2257 2257 2257 2257 2257 2258 C9 2258 C9 2258
                                        SUBROUTINE
                                sub_0_2243:
                                                                                                                                                        ; CODE XREF: sub_0_2207+2A^p; sub_0_2207+34^p ...
                                                                            a, (mario_x_coord)
#0x7A; 'z'
NC, loc_0_2257
a, (mario_jumping)
                                                              ld
cp
                                                              jp
ld
and
jp
ld
                                                                             NZ, loc_0_2257
                                                                             a, (
(hl)
Z
                                                                                   (mario_y_coord)
                                loc_0_2257:
                                                                                                                                                         ; CODE XREF: sub_0_2243+51j
                                                                                                                                                         ; sub_0_2243+C<sup>†</sup> j
                                                                             hl
                                                              pop
ret
2258 C9
2258
2258
2259*
2259*
2259*
2259*E1
225A 2C
225E 2C
225E 2C
225E 2C
225E 35
225F C0
2260 3E 04
2262 77
2263 2D
2263 3D
                                ; End of function sub_0_2243
                                loc_0_2259:
                                                                                                                                                        ; DATA XREF: sub_0_2207+15 w
                                                                            hl
l
l
l
(hl)
                                                              pop
                                                              inc
                                                              inc
inc
dec
ret
ld
ld
                                                                             NZ
                                                                             a, #4
(hl), a
                                                              dec
                                                                             (hl)
2264 34
2265 CD BD 22
2268 3E 78
226A BE
                                                              inc
                                                              call
ld
                                                                             sub_0_22BD
                                                                            a, #0x78; 'x'
(h1)
226A BE
226B C2 75 22
226E 2D
2270 2D
2271 34
2272 2C
2273 2C
2274 2C
2275 2C
2275 2D
2275 2D
2276 CD 43 22
                                                              cp
jp
dec
                                                                             NZ, loc_0_2275
                                                              dec
                                                              inc
inc
inc
inc
                                                                              (hl)
```

; CODE XREF: 0000:226B|j

; CODE XREF: 0000:228B|j

loc_0_2275:

loc_0_2281:

2276 CD 43 22 2279 3A 05 62 227C FE 68

227E D2 8A 22

2281 2281 21 05 62

34 2285 CD C0 3F dec call ld

ср

jp

ld

call

sub 0 2243 a, (mario_x_coord) #0x68; 'h'

sub_0_3FC0

NC, loc_0_228A

hl, #mario_x_coord (hl)

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
                                                                                                                                                                                                                                                                                                                (hl)
   2289 C9
                                                                                                                                                                                                                                                       ret
   228A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; CODE XREF: 0000:227E↑j
                                                                                                                                loc_0_228A:
   228A
                                                                                                                                                                                                                                                       rra
228A 1F
228B DA 81 22
228E 1F
228F 3E 01
2291 DA 95 22
2294 AF
2295
2295 32 22 62
2298 C9
2299 E1
2293 A 18 60
                                                                                                                                                                                                                                                       jp
rra
ld
                                                                                                                                                                                                                                                                                                                  C, loc_0_2281
                                                                                                                                                                                                                                                                                                                a, #1
C, loc_0_2295
a
                                                                                                                                                                                                                                                       jp
xor
                                                                                                                                loc_0_2295:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; CODE XREF: 0000:2291<sup>†</sup>j
                                                                                                                                                                                                                                                       1d
                                                                                                                                                                                                                                                                                                                  (unk_0_6222), a
                                                                                                                                                                                                                                                     pop
ld
and
                                                                                                                                                                                                                                                                                                                  hl
229A 3A 18 60
229D E6 3C
229F C0
22AO 34
22A1 C9
22A2*
22A2*
22A2*
22A2*
22A2 E1
22A3 2C
22A4 2C
22A5 2C
22A6 C0
22A6 C0
22A6 C0
22A8 B D
22AB D
22BD CB BO
22BB D
22BB D
22BB CC
2BB CC
2BB
                                                                                                                                                                                                                                                                                                                  a, (random_no)
#0x3C; '<'
                                                                                                                                                                                                                                                       ret
                                                                                                                                                                                                                                                                                                                  (h1)
                                                                                                                              loc_0_22A2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; DATA XREF: sub_0_2207+19 w
                                                                                                                                                                                                                                                                                                               hl
1
1
                                                                                                                                                                                                                                                     pop
inc
inc
inc
inc
dec
ret
                                                                                                                                                                                                                                                                                                                l
(hl)
NZ
                                                                                                                                                                                                                                                                                                                  (hl), #2
                                                                                                                                                                                                                                                     ld
dec
dec
call
                                                                                                                                                                                                                                                                                                                   (hl)
                                                                                                                                                                                                                                                                                                                  sub 0 22BD
                                                                                                                                                                                                                                                     ld
cp
ret
                                                                                                                                                                                                                                                                                                                  a, #0x68; 'h'
(hl)
                                                                                                                                                                                                                                                                                                               a
b, #0x80 ; 'Ç'
                                                                                                                                                                                                                                                       xor
                                                                                                                                                                                                                                                     ld
dec
dec
                                                                                                                                                                                                                                                                                                                   (hl), b
                                                                                                                                                                                                                                                       ld
                                                                                                                                                                                                                                                       dec
                                                                                                                                                                                                                                                                                                                  (hl), a
                                                                                                                                                                                                                                                     ret
                                                                                                                                                                                                                                                       SUBROUTINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; CODE XREF: 0000:2265<sup>p</sup>; 0000:22AD<sup>p</sup>
                                                                                                                              sub_0_22BD:
                                                                                                                                                                                                                                                                                                               a, (hl)
3, l
de, #so:
                                                                                                                                                                                                                                                       ld
 22BE CB 5D
22C0 11 4B 69
22C3 C2 C9 22
22C6 11 47 69
                                                                                                                                                                                                                                                     bit
ld
                                                                                                                                                                                                                                                                                                                de, #soft_sprite_ram+0x4B
NZ, loc_0_22C9
de, #soft_sprite_ram+0x47
                                                                                                                                                                                                                                                       jp
ld
22C6 11
22C9
22C9
22C9 12
22CA C9
22CA
22CA
22CB
                                                                                                                                loc_0_22C9:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; CODE XREF: sub_0_22BD+6<sup>†</sup>j
                                                                                                                                                                                                                                                       ld
                                                                                                                                                                                                                                                                                                                  (de), a
                                                                                                                                                                                                                                                       ret
                                                                                                                                 ; End of function sub_0_22BD
 22CB
22CB
                                                                                                                                                                                                                                            SUBROUTINE
   22CB
22CB
22CB
                                                                                                                                sub_0_22CB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_1F72+1D7\p
22CB 22CB 3A 48 63 22CE A7 22CF CA E1 22 22D2 3A 80 63 22D5 3D 22D6 EF 22D6 22D7 F6 22 22D9 F6 22D7 F6 22 22D9 F6 22D7 F6 22 22D9 F6 22 22D9 F6 22 22D9 F6 22 22D9 F6 22D9 F6 22 22D9 F6 22
                                                                                                                                                                                                                                                       ld
                                                                                                                                                                                                                                                                                                                a, (unk_0_6348)
                                                                                                                                                                                                                                                                                                               a
Z, loc_0_22E1
a, (unk_0_6380)
                                                                                                                                                                                                                                                       and
jp
ld
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; go!
                                                                                                                                                                                                                                                        .dw loc_0_22F6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; Jump table
 22D7 F6 22
22D9 F6 22
22DB 03 23
22DD 03 23
22DF 1A 23
                                                                                                                                                                                                                                                        .dw loc_0_22F6
.dw loc_0_2303
.dw loc_0_2303
.dw loc_0_231A
22DF 1A 23
22E1
22E1
22E1 22E4 47
22E5 05
22E6 3E 01
22E8 CA F9 22
22EB 05
22EC AF 9 22
22EC AF 9 22
22ET 3E E9
22ET 3E E
                                                                                                                                loc_0_22E1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_22CB+41j
                                                                                                                                                                                                                                                       ld
                                                                                                                                                                                                                                                                                                                  a. (level)
                                                                                                                                                                                                                                                     ld
dec
                                                                                                                                                                                                                                                                                                                  a,
Z,
                                                                                                                                                                                                                                                       jp
dec
                                                                                                                                                                                                                                                                                                                                    loc_0_22F9
                                                                                                                                                                                                                                                                                                                a, #0xB1; '
Z, loc_0_22F9
                                                                                                                                                                                                                                                       jp
ld
                                                                                                                                                                                                                                                                                                                a, #0xE9;
loc_0_22F9
22F6
22F6 3A 18 60
22F6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_22CB+C<sup>o</sup>; sub_0_22CB+E<sup>o</sup>
                                                                                                                              loc_0_22F6:
                                                                                                                                                                                                                                                    ld
                                                                                                                                                                                                                                                                                                                a, (random_no)
22F6
22F9
22F9
22F9 DD 77 11
22F9
22FC E6 01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_22CB+1D^{\dagger}j; sub_0_22CB+23^{\dagger}j ...
```

loc_0_22F9:

loc_0_2303:

3D DD 77 10

2303 2303 3A 18 60 2303

2306 DD 77 11 2309 3A 03 62

2302 C9 2302

2303

ld and

ld

ret ; End of function sub_0_22CB

ld

ld ld

0x11(ix), a

a 0x10(ix), a

(random_no)

0x11(ix), a a, (mario_y_coord)

; DATA XREF: $sub_0_22CB+10 \uparrow o$; $sub_0_22CB+12 \uparrow o$

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
 230C DD BE 03
                                                                                                                                3(ix)
                                                                                                        cp
ld
230C DD BE 03
230F 3E 01
2311 D2 16 23
2314 3D
2315 3D
2316 2316
2316 DD 77 10
2319 C9
                                                                                                                                a, #1
NC, loc_0_2316
                                                                                                       jp
dec
dec
                                                     loc_0_2316:
                                                                                                                                                                                                                                                             ; CODE XREF: 0000:2311<sup>†</sup> i
                                                                                                        ld
                                                                                                                                0x10(ix), a
                                                                                                        ret
2319 C9
231A
231A
231A 3A 03 62
231D DD 96 03
2320 0E FF
2322 DA 26 23
2325 0C
                                                      loc_0_231A:
                                                                                                                                                                                                                                                             ; DATA XREF: sub_0_22CB+14\u00e10
                                                                                                        ld
                                                                                                                                a, (mario_y_coord)
                                                                                                                                3(ix)
c, #0xFF
C, loc_0_2326
                                                                                                        sub
                                                                                                        ld
                                                                                                        jp
inc
loc_0_2326:
                                                                                                                                                                                                                                                             ; CODE XREF: 0000:23221j
                                                                                                       rlca
                                                                                                       rlca
rl
ld
                                                                                                                                0x10(ix), c
0x11(ix), a
                                                                                                        ld
                                                                                                       ret
                                                                                                       SUBROUTINE
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_1AC3+221<sup>p</sup>
; sub_0_1F72+95<sup>p</sup> ...
                                                     sub_0_2333:
                                                                                                       ld
and
dec
                                                                                                                               a, #0xF
h
b
z, loc_
                                                                                                        jp
cp
ret
ld
                                                                                                                                        loc 0 2342
233A FE OF
233C D8
233D 06 FF
 233F C3 47 23
                                                                                                                                loc 0 2347
                                                                                                        jр
2342
2342
2342
2342 FE 01
                                                     loc_0_2342:
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2333+41j
                                                                                                        ср
2342 FE 01
2344 D0
2345 06 01
2347
2347
2347 3E F0
2349 BD
                                                                                                                                NC
b, #1
                                                                                                       ret
ld
                                                     loc_0_2347:
                                                                                                                                                                                                                                                             ; CODE XREF: sub 0 2333+C1i
                                                                                                                                a, #0xF0 ; '-'
                                                                                                        ld
2347 3E F0
2349 BD
2344 CA 60 23
234B BD
234F BD
2350 CA 66 23
2353 7D
2356 CA 5C 23
2359
2359
2359
2350 CB
235A 6F
235A 6F
235B CP
235C CB
23
                                                                                                        ср
                                                                                                                                Z, loc_0_2360
a, #0x4C; 'L
                                                                                                       jp
ld
cp
jp
ld
                                                                                                                                Z, loc_0_2366
                                                                                                        bit
                                                                                                                                Z, loc_0_235C
                                                                                                        jр
                                                     loc_0_2359:
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2333+2F|j
                                                                                                        sub
                                                                                                                                b
                                                     loc 0 235A:
                                                                                                                                                                                                                                                             ; CODE XREF: sub 0 2333+2A-j
                                                                                                       ld
                                                                                                                                1, a
                                                                                                                                                                                                                                                              ; CODE XREF: sub_0_2333+23 j
                                                      loc_0_235C:
                                                                                                                                                                                                                                                              ; sub_0_2333+38 | j
                                                                                                                                      , b
                                                                                                        add
 235D C3 5A 23
                                                                                                        jр
                                                                                                                                loc_0_235A
2360
2360
2360
                                                      loc_0_2360:
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2333+17<sup>†</sup> j
2360 CB 7C 2362 C2 59 23 2365 C9 2366 2366 2366 7C 2367 FE 98
                                                                                                                                7, h
NZ, loc_0_2359
                                                                                                        bit
                                                                                                       jp
ret
                                                      loc_0_2366:
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2333+1D<sup>†</sup> j
                                                                                                        ld
                                                                                                                                a, h
#0x98 ; 'ÿ'
                                                                                                       cp
ret
ld
2369 D8
236A 7D
236B C3 5C 23
                                                                                                                                a, 1
loc_0_235C
                                                                                                        jр
                                                      ; End of function sub_0_2333
 236B
                                                                                                    SUBROUTINE 
 236E
236E
236E
236E
236E 21 00 63
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_1AC3+50\p; sub_0_216D\p ...
                                                     sub_0_236E:
236E
2371
2371
2371 ED B1
                                                                                                      ld
                                                                                                                               hl, #unk 0 6300
                                                     loc_0_2371:
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_236E+1E|j
2371 ED B1
2373 C2 9A 23
2376 E5
2377 C5
2378 01 14 00
237B 09
237C 0C
237D 5F
237E 7A
237F BE
2380 CA 8F 23
2383 09
2384 BE
2385 CA 95 23
                                                                                                        cpir
                                                                                                                                NZ, loc_0_239A
hl
bc
                                                                                                       jp
push
                                                                                                        push
ld
                                                                                                                                bc. #0x14
                                                                                                        add
inc
ld
                                                                                                                                hl, bc
                                                                                                                               c e, a a, d (h1) Z, loc_0_238F h1, bc (h1) Z, loc_0_2395 d, a
                                                                                                        ld
                                                                                                       cp
jp
add
cp
jp
ld
ld
```

a, e bc

loc_0_2371

pop

jр

CA 95 23 57 7B

238A C1 238B E1 238C C3 71 23

2385 2388 2389

238F 238F

```
2406
2406
2407
2407
2407
2407
2407
2407
2407 DD 7E 14
2407
2408 07
2408 07
2408 07
2409 07
                                                                                                                                                                                    ; CODE XREF: sub_0_1AC3+11C\p; sub_0_1F72+151\p ...
                                      sub_0_2407:
                                                                                           a, 0x14(ix)
                                                                          1d
                                                                         rlca
rlca
240C 07
240D 07
240E 4F
240F E6 0F
2411 67
2412 79
2413 E6 F0
2415 6F
2416 DD 4E 13
2419 DD 46 12
241C ED 42
241E C9
                                                                          rlca
                                                                          rlca
                                                                         ld
and
ld
                                                                                           c, a
#0xF
                                                                                           h, a
                                                                         ld
and
ld
                                                                                           a, c
#0xF0 ; '-'
                                                                                           1, a
c, 0x13(ix)
b, 0x12(ix)
hl, bc
                                                                          ld
                                                                          ld
sbc
241C ED
241E C9
241E
241E
241F
241F
241F
241F
                                                                          ret
                                      ; End of function sub_0_2407
                                                                       SUBROUTINE
                                                                                                                                                                                    ; CODE XREF: sub_0_1AC3+23<sup>p</sup>; sub_0_1AC3+102<sup>p</sup> ...
                                      sub_0_241F:
241F 11 00 01
241F
                                                                         1d
                                                                                           de, #0x100
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
 2422 3A 03 62
                                                              ld
                                                                             a, (mario_y_coord)
2425 FE 16
2427 D8
2428 15
2429 1C
                                                              cp
ret
dec
inc
                                                                             #0x16
                                                                             d
                                                                            e
#0xEA ; 'Û'
2429 1C
242A FE EA
242C DO
242D 1D
242E 3A 27 62
2431 OF
2432 DO
2433 3A 05 62
2436 FE 58
2438 DO
                                                              cp
ret
dec
ld
                                                                            a, (level_type)
                                                              rrca
ret
ld
                                                                            NC
                                                                             a, (mario_x_coord)
#0x58; 'X'
                                                              ср
2438 D0
2439 3A 03 62
243C FE 6C
243E D0
                                                                            NC
a, (mari
#0x6C;
                                                              ld
                                                                                  (mario_y_coord)
                                                              ср
ret
                                                                             NC
                                                              inc
                                ; End of function sub_0_241F
                                                            S U B R O U T I N E
                                                                                                                                                       ; CODE XREF: 0000:0D62<sup>p</sup>; anti-tamper check?
                                sub_0_2441:
                                                                             hl, #byte_0_3F09+3
                                                                            a, #0x5E;
b, #6
                                                              ld
                                                              14
                                loc_0_2448:
                                                                                                                                                       ; CODE XREF: sub_0_2441+9|j
2448 86
2449 23
244A 10 FC
244C FD 21 10 63
2450 A7
2451 CA 56 24
2454 FD 23
2456
2456 3A 27 62
2459 3D
245A 21 E4 3A
245D CA 71 24
2460 3D
2461 21 5D 3B
2464 CA 71 24
2467 3D
2468 21 E5 3B
                                                              add
                                                                             a, (hl)
                                                                             h1
                                                              djnz
ld
and
                                                                             loc_0_2448
iy, #unk_0_6310
                                                              jp
inc
                                                                             Z, loc_0_2456
                                                                                                                                                       ; CODE XREF: sub 0 2441+101i
                                loc 0 2456:
                                                             ld
dec
ld
                                                                            a, (level_type)
                                                                            hl, #barrel_level_tilemap_data
Z, loc_0_2471
                                                              jp
dec
                                                                            hl, #cement_pie_level_tilemap_data Z, loc_0_2471
2464 CA 71 24
2467 3D
2468 CA 71 24
2468 CA 71 24
246B CA 71 24
246B CA 71 24
2471
2471
2471
2471
2471
2475 11 05 00
2478
2478
2478
2478
2478
2479 A7
247A CA 88 24
247D 3D
247E CA 9E 24
2481 FE A9
2483 C8
                                                              jp
dec
                                                                            a
hl, #elevator_level_tilemap_data
Z, loc_0_2471
hl, #rivet_level_tilemap_data
                                                              ld
                                                              jp
1d
                                loc_0_2471:
                                                                                                                                                       ; CODE XREF: sub_0_2441+1C\uparrow j; sub_0_2441+23\uparrow j ...
                                                                            ix, #unk_0_6300
de, #5
                                                              1d
                                                                                                                                                       ; CODE XREF: sub_0_2441+44 | j
                               loc_0_2478:
                                                                                                                                                        ; sub_0_2441+5A|j ...
                                                              ld
and
                                                                            a, (hl)
                                                                             a
Z, loc_0_2488
                                                              jp
dec
                                                                             Z, loc_0_249E
#0xA9; '8'
                                                              jp
                                                              ср
 2483 C8
2484 19
                                                                             hl de
                                                              add
 2485 C3 78 24
2488
                                                              jp
                                                                             loc_0_2478
2488
2488
2488 23
2489 7E
                                loc_0_2488:
                                                                                                                                                       ; CODE XREF: sub_0_2441+39 j
                                                              inc
ld
                                                                            a, (hl)
0(ix), a
                                                                                  (hl)
2489 7E
248A DD 77 00
248D 23
248E 7E
248F DD 77 15
                                                              ld
inc
                                                                            a, (hl)
0x15(ix), a
                                                              ld
                                                              ld
248F DD 77 15
2492 23
2493 23
2494 7E
2495 DD 77 2A
2498 DD 23
249A 23
249B C3 78 24
                                                              inc
inc
ld
                                                                             h1
                                                                                   (hl)
                                                                             a, (hl)
0x2A(ix), a
                                                              ld
                                                                             loc_0_2478
                                                              qŗ
249E C3
249E
249E
249E
249E 23
249F 7E
                                loc_0_249E:
                                                                                                                                                       ; CODE XREF: sub_0_2441+3D<sup>†</sup> j
                                                                             hl
                                                              inc
                                                                            a, (hl)
0(iy), a
hl
 24A0 FD 77 00
24A3 23
24A4 7E
                                                              ld
inc
ld
                                                                                  (hl)
                                                                            a, (hl)
0x15(iy), a
24A4 7E
24A5 FD 77 15
24A8 23
24A9 23
24AA 7E
                                                              ld
inc
inc
ld
                                                                             hl
                                                                             a, (hl)
0x2A(iy), a
24AB FD 77 2A
24AE FD 23
24B0 23
24B1 C3 78 24
                                                              ld
inc
inc
                                jp loc_
; End of function sub_0_2441
                                                                             loc 0 2478
24B1
24B1
24B4
 24B4
24B4
24B4
                                                           SUBROUTINE
                                                                                                                                                       ; CODE XREF: sub_0_1F72+A2^p; sub_0_1F72+F6^p ...
 24B4
                                sub 0 24B4:
 24B4 DD 7E 05
 24B4
24B7 FE E8
                                                                             a, 5(ix)
#0xE8; 'b'
                                                              ср
 24B9 D8
                                                              ret
 24BA DD 7E 03
24BD FE 2A
24BF D0
                                                              ld
cp
                                                                             a, 3(ix)
#0x2A; '*'
```

ret

cp ret

#0x20 ; ' '

24C0 FE 20

24C2 D8

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
 24C3 DD 7E 15
                                                                     a, 0x15(ix)
                                                        ld
24C6 A7
24C7 CA DO 24
24CA 3E 03
24CC 32 B9 62
24CF AF
                                                        and
                                                        jp
ld
ld
                                                                     Z, loc_0_24D0
                                                                      a, #3
(unk_0_62B9), a
                                                        xor
24CF AF
24D0
24D0
24D0 DD 77 00
24D3 DD 77 03
24D6 21 82 60
24D9 36 03
24DB E1
24DC 34 48 63
                             loc_0_24D0:
                                                                                                                                         ; CODE XREF: sub_0_24B4+13 j
                                                                     0(ix), a
                                                        ld
                                                                     3(ix), a
hl, #digital_snd_tmr_thump
(h1), #3
                                                        ld
                                                        ld
ld
                                                        pop
ld
and
jp
                                                                     hl
                                                                     a, (unk_0_6348)
24DC 3A 48 63
24DF A7
24E0 C2 BA 21
24E3 3C
                                                                      NZ, loc_0_21BA
24E3 3C
24E4 32 48 63
24E7 C3 BA 21
24E7
24E7
                             ld (unk_0_6348), a jp loc_0_21BA ; End of function sub_0_24B4
24EA
24EA
24EA
                                                      SUBROUTINE
24EA

24EA

24EA 3E 02

24EC F7

24ED CD 23 25

24FO CD 91 25

24F3 DD 21 AO 65

24F9 21 B8 69

24FC

24FC

24FC

24FC DD 7E 00

24FF A7

2500 CA 1C 25

2503 DD 7E 03
                             sub_0_24EA:
                                                                                                                                         ; CODE XREF: 0000:1992 p
                                                                     a, #2
0x30
                                                                                                                                         ; return if level bit not set
                                                        rst
                                                                      sub 0 2523
                                                        call
                                                        call
ld
ld
                                                                      sub_0_2523
sub_0_2591
ix, #unk_0_65A0
b, #6
                                                                                                                                         ; 6 sprites to update
                                                                     hl, #soft_sprite_ram+0xB8
                                                        ld
                             loc_0_24FC:
                                                                                                                                         ; CODE XREF: sub_0_24EA+2F|j
                                                        ld
                                                                     a. 0(ix)
                                                        and
                                                                     a
Z, loc_0_251C
                                                        jp
ld
                                                                                                                                          ; sprite X
                                                                      a, 3(ix)
(hl), a
 2506
                                                        ld
 2508 DD 7E 07
250B 77
                                                                                                                                          ; sprite tile #
                                                                      a, /(1x
(hl), a
                                                        ld
 250C
 250D DD 7E 08
2510 77
                                                        ld
ld
                                                                      a, 8(ix)
(hl), a
                                                                                                                                         ; sprite v flip & palette
                                                                     1
a. 5(ix)
                                                        inc
ld
2511 2C
2512 DD 7E 05
2515 77
2516 2C
2517
2517 DD 19
2519 10 E1
2518 C9
                                                                                                                                         ; sprite Y
                                                        inc
                             loc_0_2517:
                                                                                                                                         ; CODE XREF: sub_0_24EA+36 j
                                                                     ix, de
loc_0_24FC
                                                        djnz
251B C9
251C
251C
251C
                                                                                                                                         ; CODE XREF: sub_0_24EA+16 j
                             loc_0_251C:
251C 7D
251D C6 04
251F 6F
2520 C3 17 25
                                                                     a, 1
a, #4
1, a
                                                        1d
                                                        add
ld
                                                                      loc 0 2517
                                                        jр
; End of function sub_0_24EA
                                                      SUBROUTINE ...
                             sub_0_2523:
                                                                                                                                         ; CODE XREF: sub_0_24EA+3\p
                                                                     hl, #unk_0_639B
a, (hl)
                                                        ld
                                                        ld
and
                                                                      a
NZ, loc_0_258F
                                                        jp
ld
and
ret
ld
                                                                           (unk_0_639A)
2530 06 06
2532 11 10 00
2535 DD 21 A0 65
2539 DD CB 00 46
2539 DD CB 00 46
2530 CA 45 25
2540 DD 19
2542 10 F5
2544 C9
2545
2545
2545 CD 57 00
                                                                     b, #6
                                                                      de, #0x10
ix, #unk_0_65A0
                                                        ld
                            loc_0_2539:
                                                                                                                                         ; CODE XREF: sub 0 2523+1F-i
                                                                     0, 0(ix)
Z, loc_0_2545
ix, de
loc_0_2539
                                                        bit
                                                        jp
add
                                                        djnz
                             loc_0_2545:
                                                                                                                                         ; CODE XREF: sub 0 2523+1A1 j
                                                                     rand

#0x60; '''

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

C, loc_0_2558

a, (unk_0_62A3)
 2545 CD 57 00
2548 FE 60
254A DD 36 05 7C
                                                        call
                                                        cp
ld
254E DA 58 25
2551 3A A3 62
2554 3D
2555 C2 6E 25
                                                        jp
ld
dec
                                                                      NZ. loc 0 256E
                                                        jр
2558 C2 0E 25
2558 10c_0_2558:
2558 DD 36 05 CC
255C 3A A6 62
255F 07
                                                                                                                                         ; CODE XREF: sub_0_2523+2B<sup>†</sup> j
                                                                     ld
                                                        ld
                                                        rlca
                                                                                                                                          ; CODE XREF: sub_0_2523+50|j
                             loc 0 2560:
2560 DD 36 03 07
2564 D2 76 25
2567 DD 36 03 F8
256B C3 76 25
                                                                      3(ix), #7
NC, loc_0_2576
3(ix), #0xF8;
loc_0_2576
                                                        ld
                                                        jp
ld
```

; CODE XREF: sub_0_2523+321j

; CODE XREF: sub_0_2523+41[†] j

jр

call

cp jp

rand

#0x68 loc_0_2560

loc_0_256E:

loc_0_2576:

256E 256E

250E 256E CD 57 00 2571 FE 68 2573 C3 60 25 2576

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
2576 DD 36 00 01
                                                                                                                                                      ; sub_0_2523+48<sup>†</sup>j
                                                                           0(ix), #1
7(ix), #0x4B; 'K'
9(ix), #8
0xA(ix), #3
a, #0x7C; '|'
(unk_0_639B), a
2576
257A DD 36 07 4B
257E DD 36 09 08
2582 DD 36 0A 03
2586 3E 7C
2588 32 9B 63
                                                             ld
ld
ld
                                                                                                                                                      ; cement pie sprite tile
                                                             ld
                                                             ld
2586 32 9B 63
258B AF
258C 32 9A 63
258F
                                                             xor
ld
                                                                            (unk_0_639A), a
258F
258F 35
2590 C9
                               loc_0_258F:
                                                                                                                                                      ; CODE XREF: sub_0_2523+5 j
                                                             ret
2590
2590
2591
2591
                               ; End of function sub_0_2523
                                       SUBROUTINE LINE
2591
2591
2591
2591
2591 DD 21 AO 65
2595 11 10 00
2598 06 06
259A
                               sub_0_2591:
                                                                                                                                                      ; CODE XREF: sub_0_24EA+61p
                                                                            ix, #unk_0_65A0
de, #0x10
b, #6
                                                             ld
                                                             ld
                                                             ld
                                                                                                                                                      ; CODE XREF: sub 0 2591+2C-i
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
                                                                            0, 0(ix)
Z, loc_0_25BB
                                                             bit
                                                             jp
ld
                                                                           Z, loc_0_25BB

a, 3(ix)

h, a

a, #7

#0xE

C, loc_0_25D6

a, 5(ix)

#0x7C; '|'

Z, loc_0_25C0

a (unk 0 63AB
                                                             14
                                                             add
cp
jp
ld
cp
jp
25AC DD 7E 05
25AF FE 7C
25BF CA CO 25
25B4 3A A6 63
25B7 84
25B8 DD 77 03
25BB
                                                                            a, (unk_0_63A6)
a, h
3(ix), a
                                                             add
ld
                                                                                                                                                      ; CODE XREF: sub_0_2591+D<sup>†</sup> j ; sub_0_2591+42<sup>†</sup> j ...
25BB DD 19
25BB DD 19
25BB 25BD 10 DB
                               loc 0 25BB:
                                                             add
                                                                            ix, de
loc_0_259A
                                                             djnz
25BF C9
25C0
25C0
25C0
25C0 7C
25C1 FE 80
25C3 CA D6 25
25C6 3A A5 62
25C9 D2 CF 25
25CC 3A A4 63
25CF
25BF C9
                               loc 0 25C0:
                                                                                                                                                      ; CODE XREF: sub 0 2591+201;
                                                                           a, h

#0x80; 'C'

Z, loc_0_25D6

a, (unk_0_63A5)

NC, loc_0_25CF

a, (unk_0_63A4)
                                                             14
                                                             ср
                                                             jp
1d
25CF
25CF 84
25D0 DD 77 03
25D3 C3 BB 25
                               loc 0 25CF:
                                                                                                                                                      ; CODE XREF: sub 0 2591+381;
                                                                            a, h
3(ix), a
loc_0_25BB
                                                             add
                                                              ld
                                                             jр
25D6
25D6
25D6
25D6
25D6 21 B8 69
                                loc_0_25D6:
                                                                                                                                                      ; CODE XREF: sub_0_2591+18<sup>†</sup>j; sub_0_2591+32<sup>†</sup>j
25D6
                                                             ld
                                                                            hl, #soft_sprite_ram+0xB8
25D6
25D9 3E 06
25DB 90
25DC
25DC
25DC CA E7
25DF 2C
                                                             ld
sub
                                loc_0_25DC:
                                                                                                                                                      ; CODE XREF: sub_0_2591+53-j
25DC CA E7 25
25DF 2C
25E0 2C
                                                             jp
inc
inc
                                                                            Z, loc_0_25E7
25E1 2C
25E2 2C
25E3 3D
                                                             inc
inc
dec
25E4 C3 DC 25
25E7
25E7
25E7
                                                             jр
                                                                            loc 0 25DC
                               loc_0_25E7:
                                                                                                                                                      ; CODE XREF: sub_0_2591+4B1 j
25E7 AF
25E8 DD 77 00
25EB DD 77 03
25EE 77
                                                             xor
ld
ld
                                                                            0(ix), a
3(ix), a
                                                                            (hl).
                                                             ld
25EF C3 BB 25
                                jp loc_0_25BB
; End of function sub_0_2591
25EF
25EF
25EF
25F2
25F2
25F2
25F2
25F2
25F4
7
25F5 CD 02 26
25F8 CD 2F 26
25FB CD 79 26
25FE CD D3 2A
2601 C9
                                                            SUBROUTINE |
                                sub_0_25F2:
                                                                                                                                                      ; CODE XREF: 0000:19AA1p
                                                                            a, #2
0x30
                                                             ld
rst
call
                                                                                                                                                       ; return if level bit not set
                                                                            sub_0_2602
                                                             call
call
                                                                            sub_0_262F
sub_0_2679
sub_0_2AD3
                                                             ret
2601
2601
2602
                                ; End of function sub_0_25F2
2602
2602
2602
2602
2602
2602 3A 1A 60
                                                     SUBROUTINE
                                                                                                                                                      ; CODE XREF: 0000:16D5\p; sub_0_25F2+3\p
                                sub 0 2602:
2602
2605 OF
                                                             ld
rrca
                                                                            a, (gen_purpose_timer)
```

C, loc_0_2616
hl, #unk_0_62A0

hl, #unk_0_62A (hl) NZ, loc_0_2616

sub_0_26DE

(hl), #0x80; 'Ç

; CODE XREF: sub 0 2602+41 j

; sub_0_2602+B1 j

jp ld

dec jp ld

call

loc_0_2616:

2606 DA 16 26 2609 21 A0 62 260C 35

260C 35 260D C2 16 26

2610 36 80 2612 2C 2613 CD DE 26 2616

2616 21 A1 62

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
2616
                                                                              hl, #unk_0_62A1
                                                               ld
                                                               call
ld
ld
and
2619 CD E9 26
261C 32 A3 63
261F 3A 1A 60
2622 E6 1F
                                                                              sub_0_26E9
(unk_0_63A3), a
a, (gen_purpose_timer)
#0x1F
2624 FE 01
2626 C0
2627 11 E4 69
262A EB
                                                               cp
ret
                                                                              NZ
                                                                              de, #soft_sprite_ram+0xE4 de, hl
                                                               ld
262A EB
262B CD A6 26
262E C9
262E
262E
                                                               ex
                                                                              sub_0_26A6
                                                               call
                                ret; End of function sub_0_2602
262F
262F
262F
262F
                                                            SUBROUTINE
262F
262F
262F 21 A3 62
2632 3A 05 62
2635 FE CO
2637 DA 6F 26
263A 3A 1A 60
263D 0F
                                sub_0_262F:
                                                                                                                                                          ; CODE XREF: sub_0_25F2+61p
                                                               ld
ld
                                                                              hl, #unk_0_62A3
                                                                                    (mario_x_coord)
                                                               cp
jp
ld
                                                                              #0xC0; 'L'
C, loc_0_266F
a, (gen_purpose_timer)
263D OF
263E DA 4C 26
2641 2D
2642 35
2643 C2 4C 26
2648 36 C0
2648 2C
2649 CD DE 26
                                                               rrca
                                                               jp
dec
dec
                                                                              C, loc_0_264C
                                                                              1
(hl)
                                                                              NZ, loc_0_264C
(hl), #0xC0; L
                                                               jp
ld
                                                               call
                                                                              sub_0_26DE
264C
264C 21 A3 62
264C
264F CD E9 26
                                                                                                                                                          ; CODE XREF: sub_0_262F+F<sup>†</sup> j
; sub_0_262F+14<sup>†</sup> j ...
                                loc_0_264C:
                                                               ld
                                                                              hl, #unk_0_62A3
                                                               call
264F CD E9 26
2652 32 A5 63
2655 ED 44
2657 32 A4 63
265A 3A 1A 60
265D E6 1F
265F CO
2661 11 EC 69
2664 EB
2665 CD A6 26
2668 E6 7F
266A 21 ED 69
266D 77
266E C9
                                                                              sub 0 26E9
                                                               ld
neg
ld
                                                                              (unk_0_63A5), a
                                                                              (unk_0_63A4), a
                                                                              a, (gen_purpose_timer)
#0x1F
                                                               ld
                                                               and
                                                               dec
                                                               1d
                                                                              de, #soft_sprite_ram+0xEC
                                                                              de, hl
sub_0_26A6
                                                               ex
call
                                                               and
ld
                                                                              hl, #soft_sprite_ram+0xED (hl), a
266D 77
266E C9
266F
                                                               ret
266F
266F
266F CB 7E
                                loc_0_266F:
                                                                                                                                                          ; CODE XREF: sub_0_262F+81j
                                                              bit
                                                                              7, (hl)
                                jp NZ, loc_0_264C
ld (h1), #0xFF
jp loc_0_264C
; End of function sub_0_262F
2671 C2 4C 26
2674 36 FF
2676 C3 4C 26
2676
2676
2679
2679
2679
                                                               SUBROUTINE
2679
2679
2679 3A 1A 60
267C OF
                                 sub_0_2679:
                                                                                                                                                          ; CODE XREF: sub_0_25F2+9\p
                                                               ld
                                                                              a, (gen_purpose_timer)
                                                               rrca
                                                                            0, 10c_0_268D
hl, #unk_0_62A5
(hl)
NZ, 10c_0_268D
(hl), #0xFF
267D DA 8D 26
2680 21 A5 62
2683 35
                                                               jp
ld
dec
2683 35
2684 C2 8D 26
2687 36 FF
2689 2C
268A CD DE 26
                                                               jp
ld
                                                               call
                                                                              sub_0_26DE
268D
268D
268D 21 A6 62
268D
                                                                                                                                                          ; CODE XREF: sub_0_2679+4<sup>†</sup> j ; sub_0_2679+B<sup>†</sup> j
                                loc_0_268D:
                                                                              hl, #unk_0_62A6
                                                               ld
2690 CD E9 26
2693 32 A6 63
2696 3A 1A 60
2699 E6 1F
                                                               call
ld
ld
                                                                              sub_0_26E9
(unk_0_63A6), a
                                                                              a, (gen_purpose_timer)
#0x1F
2699 E6 1F
269B FE 02
269D C0
269E 11 F4 69
26A1 EB
26A2 CD A6 26
26A5 C9
26A5
                                                               and
                                                               cp
ret
ld
                                                                              NZ
de, #soft_sprite_ram+0xF4
                                                               ex
                                                                              de, hl
                                                               call
ret
                                                                              sub_0_26A6
                                ; End of function sub_0_2679
26A6
26A6
26A6
                                            SUBROUTINE
26A6
26A6
26A6
26A6 2C
26A6
26A7 1A
26A8 17
26A9 DA C5 26
26AC 7E
                                                                                                                                                          ; CODE XREF: sub_0_2602+29\uparrowp ; sub_0_262F+36\uparrowp ...
                                sub_0_26A6:
                                                               ld
rla
                                                                              a, (de)
                                                                              C, loc_0_26C5
                                                               jp
ld
                                                                              a, (hl)
         7E
3C
26AC 7E
26AD 3C
26AE FE 53
26B0 C2 B5 26
26B3 3E 50
26B5
26B5
                                                                             a, (HI)
a
#0x53; 'S'
NZ, loc_0_26B5
a, #0x50; 'P'
                                                               inc
                                                               ср
                                                               jp
ld
                                loc_0_26B5:
                                                                                                                                                         ; CODE XREF: sub_0_26A6+A1j
                                                                             (hl), a
a, 1
a, #4
l, a
a, (hl)
26B5 77
26B5 77
26B6 7D
26B7 C6 04
26B9 6F
26BA 7E
26BB 3D
26BC FE CF
26BE C2 C3 26
26C1 3E D2
26C3
                                                               ld
                                                               ld
```

add ld ld dec

jp ld

NZ, loc_0_26C3 a, #0xD2; 'Ê'

```
; CODE XREF: sub_0_26A6+18 j
                              loc_0_26C3:
26C3 26C3 77 26C4 C9 26C5 26C5 7E 26C6 3D 26C7 FE 4F 26C9 C2 CE 26C6 26CE 26CE 26CE 26CE 77
                                                          ld
                                                                       (hl), a
                                                          ret
                                                                                                                                            ; CODE XREF: sub 0 26A6+311
                             loc_0_26C5:
                                                         ld
dec
                                                                       a, (hl)
                                                                       a
#0x4F ; 'O'
                                                          ср
                                                                       NZ, loc_0_26CE
a, #0x52; 'R'
26CE 26CE 77 26CF 7D 26DO C6 04 26D2 6F 26D3 7E 26D4 3C 26D5 7C 2 DC 26 26DA 3E D0 26DC 7C 26DC 7C 26DC 7C 26DC 7C 26DC 7C 26DD C9
                              loc_0_26CE:
                                                                                                                                            ; CODE XREF: sub_0_26A6+231j
                                                                       (hl), a
a, l
a, #4
l, a
                                                          1d
                                                         ld
add
ld
                                                                       a, (hl)
                                                         ld
inc
                                                                       a
#0xD3 ; 'Ë'
                                                          ср
                                                                       NZ, loc_0_26DC
                                                                        a, #0xD0 ;
                              loc 0 26DC:
                                                                                                                                           ; CODE XREF: sub 0 26A6+311j
                                                         ld
                                                                       (hl), a
 26DD C9
26DD
26DD
26DD
26DE
                              ret; End of function sub_0_26A6
 26DE
26DE
26DE
26DE
                                                         SUBROUTINE
26DE
26DE CB 7E
26DE
26DE
26DC CA E6 26
                                                                                                                                            ; CODE XREF: sub_0_2602+11\uparrowp ; sub_0_262F+1A\uparrowp ...
                              sub_0_26DE:
                                                                       7, (hl)
Z, loc_0_26E6
                                                          jp
ld
 26E3 36 02
26E5 C9
26E6
                                                                       (hl), #2
 26E6
 26E6
26E6 36 FE
26E8 C9
                              loc_0_26E6:
                                                                                                                                            ; CODE XREF: sub_0_26DE+2|j
                                                          ld
                                                                       (hl), #0xFE; '■'
                                                          ret
                              ; End of function sub_0_26DE
 26E8
 26E9
                              ; SUBROUTINE
26E9
26E9
26E9
26E9
26E9
26E9
26EC BO 01
26EC CB 7E
                                                                                                                                            ; CODE XREF: sub_0_2602+17<sup>p</sup>; sub_0_262F+20<sup>p</sup> ...
                              sub_0_26E9:
                                                                      a, (gen_purpose_timer)
#1
z
7, (h1)
a, #0xFF
                                                         ld
and
ret
26EE C8
26EF CB 7E
26F1 3E FF
26F3 C2 F8 26
26F6 3E 01
                                                          bit
                                                          ld
                                                                       a, #0xFF
NZ, loc_0_26F8
                                                          jp
ld
26F8
26F8
26F8 77
26F9 C9
26F9
                              loc_0_26F8:
                                                                                                                                            ; CODE XREF: sub_0_26E9+A1j
                                                          ld
                                                                       (hl), a
                                                          ret
                              ; End of function sub_0_26E9
 26FA
26FA
26FA
26FA
                                                       SUBROUTINE
26FA 26FA 3E 04 26FC F7 26FC 3A 05 62 2700 FE F0 2702 D2 7F 27 2705 3A 29 62 2708 3D 2700 C 21 A 27 270F E6 03 2711 FE 01 2713 CA 1E 27 2719 C9 2714
                              sub_0_26FA:
                                                                                                                                            ; CODE XREF: 0000:19A71p
                                                                       a, #4
0x30
                                                         ld
                                                          rst
ld
                                                                                                                                            ; return if level bit not set
                                                                            (mario_x_coord)
                                                                       a, (mar
#0xF0 ;
                                                         cp
jp
ld
dec
                                                                       NC, mario_dies_on_elevator a, (level)
                                                                                                                                            ; make mario die
                                                                            (gen purpose timer)
                                                          jp
and
                                                                       NZ, loc_0_271A
                                                          ср
                                                                       Z, loc_0_271E
C, loc_0_2722
                                                          jp
jp
ret
 271A
 271A
271A OF
271B DA 22 27
271E
                              loc_0_271A:
                                                                                                                                            ; CODE XREF: sub_0_26FA+12<sup>†</sup>j
                                                          rrca
                                                                       C, loc_0_2722
                                                         jр
                              loc_0_271E:
                                                                                                                                            ; CODE XREF: sub_0_26FA+19<sup>†</sup> j
 271E CD 45 27
2721 C9
                                                          call
                                                                       sub_0_2745
                                                         ret
                                                                                                                                            ; CODE XREF: sub_0_26FA+1C<sup>†</sup> j ; sub_0_26FA+21<sup>†</sup> j
                              loc_0_2722:
 2722
2722 CD 97 27
                                                                      sub_0_2797
sub_0_27DA
b, #6
de, #0x10
hl, #soft_sprite_ram+0x58
ix, #unk_0_6600
                                                         call
call
ld
2728 06 06
272A 11 10 00
272D 21 58 69
2730 DD 21 00 66
2734
        CD DA 27
                                                                                                                                            ; six elevators
                                                          ld
                                                          ld
                                                                                                                                            ; CODE XREF: sub_0_26FA+48|j
                              loc_0_2734:
 2734 DD 7E 03
2737 77
2738 2C
2739 2C
                                                         ld
ld
                                                                       a, 3(ix) (hl), a
                                                                                                                                            ; store coordinates
                                                         inc
inc
inc
ld
        DD
77
2C
                                                                      a, 5(ix
(hl), a
                                                                            5(ix)
 273E
273F
                                                          ld
                                                                       ix, de
loc_0_2734
                                                          add
         10 F0
                                                         djnz
                              ret; End of function sub_0_26FA
 2744 C9
 2744
```

```
2745
2745
2745
2745
2745
2745
2745
3A 98 63
2748 A7
2749 C8
                               ; SUBROUTINE
                               sub_0_2745:
                                                                                                                                                    ; CODE XREF: sub 0 26FA+24 p
                                                            ld
and
ret
                                                                           a, (mario_on_elevator)
                                                                                                                                                    ; on elevato; no, return
2749 C8
2744 3A 16 62
274D A7
274E C0
274F 3A 03 62
2752 FE 2C
2754 DA 66 27
2757 FE 43
2759 DA 6F 27
275C FE 6C
275E DA 66 27
2761 FE 83
2763 DA 87 27
2766
                                                            ld
and
ret
ld
                                                                           a, (mario_jumping)
                                                                                                                                                    ; jumping?
; yes, return
                                                                           a, (mario_y_coord)
                                                             cp
jp
cp
jp
cp
                                                                           #0x2C ;
                                                                                loc_0_2766
                                                                                                                                                    ; not not elevator
                                                                           #0x43; 'C'
C, loc_0_276F
                                                                                                                                                    ; on left elevator
                                                                           "0x8C', 1
C, loc_0_2766
#0x83; 'â'
C, loc_0_2787
                                                                                                                                                    ; not on elevator
                                                             ср
                                                             jр
                                                                                                                                                    ; on right elevator
 2766
2766
2766 AF
                                                                                                                                                    ; CODE XREF: sub_0_2745+F^{\dagger}j; sub_0_2745+19^{\dagger}j; mark off elevator
                               loc_0_2766:
2766
2767
276A
                                                             xor
         32 98 63
3C
32 21 62
                                                            ld
inc
                                                                           (mario_on_elevator), a
                                                                           (unk_0_6221), a
                                                             ld
 276B
 276E C9
276F
276F
                               loc_0_276F:
                                                                                                                                                    ; CODE XREF: sub_0_2745+14 j
276F
276F 3A 05 62
2772 FE 71
2774 DA 7F 27
2777 3D
2778 32 05 62
2778 32 4F 69
277F C9
                                                                           a, (mario_x_coord)
#0x71 ; 'q'
                                                             1d
                                                             ср
                                                                           C, mario_dies_on_elevator
                                                                                                                                                    ; make mario die
                                                             jp
dec
                                                                                                                                                    ; on upwards moving elevator
                                                                           (mario_x_coord), a
(soft_sprite_ram+0x4F), a
                                                             ld
                                                             ret
277E C9
277F
277F
277F
277F AF
277F
                               mario_dies_on_elevator:
                                                                                                                                                    ; CODE XREF: sub_0_26FA+8<sup>†</sup>j; sub_0_2745+2F<sup>†</sup>j ...
277F
2780 32 00 62
2783 32 98 63
2786 C9
2787
2787
2787
2787 3A 05 62
                                                             ld
ld
                                                                           (mario_alive_flag), a
(mario_on_elevator), a
                                                             ret
                               loc_0_2787:
                                                                                                                                                    ; CODE XREF: sub_0_2745+1E<sup>†</sup>j
                                                             ld
                                                                                (mario_x_coord)
278A FE E8
278C D2 7F 27
278F 3C
2790 32 05 62
2793 32 4F 69
                                                             cp
jp
                                                                           NC, mario_dies_on_elevator
                                                                                                                                                    ; on downwards moving elevator
                                                                           (mario_x_coord), a
(soft_sprite_ram+0x4F), a
 2790 32
2793 32
2796 C9
2796
                                                             1d
                                                             ld
                                                             ret
                                ; End of function sub_0_2745
2796
2797
2797
2797
                                                           SUBROUTINE
2797
2797
2797 06 06
2799 11 10 00
279C DD 21 00 66
27A0
27A0 DD CD 00 46
                                                                                                                                                       CODE XREF: sub_0_26FA+28†p move elevators to the right side
                               sub_0_2797:
                                                                           de, #0x10
ix, #unk_0_6600
                                                             ld
                                                             ld
                                                                                                                                                    ; CODE XREF: sub_0_2797+2D|j
                               loc_0_27A0:
27A0 DD CB 00 46
27A4 CA C2 27
27A7 DD CB 0D 5E
27AB CA C7 27
27AE DD 7E 05
27B1 3D
27B2 DD 77 05
27B5 FE 60
                                                                           0, 0(ix)
Z, loc_0_27C2
3, 0xD(ix)
Z, loc_0_27C7
                                                            bit
                                                             jp
ld
dec
ld
                                                                           a, 5(ix)
                                                                           a
5(ix), a
#0x60; '`'
                                                            cp
jp
ld
ld
2/B5 FE 60
27B7 C2 C2 27
27BA DD 36 03 77
27BE DD 36 0D 04
27C2
                                                                           NZ, loc_0_27C2
3(ix), #0x77; 'w'
0xD(ix), #4
27C2
27C2
27C2 DD 19
27C2
                                                                                                                                                    ; CODE XREF: sub_0_2797+D<sup>†</sup> j ; sub_0_2797+20<sup>†</sup> j ...
                               loc_0_27C2:
                                                                           ix, de
loc_0_27A0
                                                             add
 27C4 10 DA
                                                             djnz
 27C4 10
27C6 C9
27C7
27C7
27C7
                               loc_0_27C7:
                                                                                                                                                    ; CODE XREF: sub 0 2797+141 j
 27C7 DD 7E 05
27CA 3C
27CB DD 77 05
                                                             ld
                                                                           a, 5(ix)
                                                                           a
5(ix), a
                                                             inc
ld
 27CE FE F8
27D0 C2 C2 27
27D3 DD 36 00 00
27D7 C3 C2 27
                                                             cp
jp
ld
                                                                           #0xF8; '°'
NZ, loc_0_27C2
                                                                           0(ix), #0
loc_0_27C2
                               jp loc_
; End of function sub_0_2797
                                                         SUBROUTINE
 27DA
27DA
27DA
27DA
                                                                                                                                                    ; CODE XREF: sub_0_26FA+2B<sup>p</sup>; move elevators to the left side
sub 0 27DA:
                                                             ld
                                                                           hl, #unk_0_62A7
                                                                           a, (hl)
                                                             ld
and
                                                                           NZ, loc_0_2806
                                                             jp
ld
                                                                           ix, #unk_0_6600
                               loc_0_27E8:
                                                                                                                                                   ; CODE XREF: sub 0 27DA+17-j
 27E8
27E8 DD CB 00 46
27EC CA F4 27
27EF DD 19
27F1 10 F5
27F3 C9
                                                                           0, 0(ix)
Z, loc_0_27F4
ix, de
loc_0_27E8
                                                            bit
                                                             jp
add
                                                             djnz
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
27F4
27F4
27F4 DD 36 00 01
27F8 DD 36 03 37
27FC DD 36 05 F8
2800 DD 36 0D 08
2804 36 34
2806
2806
                          loc_0_27F4:
                                                                                                                               ; CODE XREF: sub_0_27DA+12 j
                                                                 0(ix), #1
3(ix), #0x37; '7'
5(ix), #0xF8; '°'
0xD(ix), #8
                                                    ld
ld
                                                    ld
                                                    14
                                                                 (hl), #0x34; '4'
                                                    ld
                          loc 0 2806:
                                                                                                                               ; CODE XREF: sub 0 27DA+511
2806
2806 35
2807 C9
2807
                                                    dec
                                                                 (hl)
                                                    ret
                           ; End of function sub_0_27DA
2807
2808
2808
2808
                                                  SUBROUTINE
2808 2808 2808 FD 21 00 62 280C 3A 05 62 280F 4F 2810 21 07 04 2813 CD 6F 28 2816 A7 2817 C8 2818 3D 2819 32 00 62 281C 281C 281D 281D 281D 281D
                                                                                                                                ; CODE XREF: 0000:19B31p
                                                                iy, #mario_alive_flag
                                                    ld
                                                    ld
                                                                a, (mario_x_coord)
c. a
                                                    ld
ld
                                                    call
                                                                 sub 0 286F
                                                    ret
dec
ld
                                                                                                                                ; die
                                                                 (mario_alive_flag), a
                                                    ret
                           ; End of function sub_0_2808
281D
281D
281D
281D
                                                   SUBROUTINE
                                                                                                                                ; CODE XREF: 0000:19B61p
                           sub 0 281D:
281D 06 02
281F 11 10 00
2822 FD 21 80 66
                                                                b, #2
de, #0x10
iy, #unk_0_6680
                                                    1d
                                                    ld
ld
; hammer character data
                           loc_0_2826:
                                                                                                                                ; CODE XREF: sub_0_281D+12|j
                                                    bit
                                                                0, 1(iy)
NZ, loc_0_2832
iy, de
                                                    jp
add
                                                    djnz
                                                                 loc_0_2826
                           loc_0_2832:
                                                                                                                                ; CODE XREF: sub_0_281D+D^j
                                                                c, 5(iy)
h, 9(iy)
1, 0xA(iy)
                                                    ld
                                                    ld
                                                    ld
call
and
                                                                 sub_0_286F
                                                    ret
ld
ld
                                                                (unk_0_6350), a
a, (unk_0_63B9)
b
                                                    sub
                                                    ld
ld
ld
                                                                 (unk_0_6354), a
                                                                 a, e
(unk_0_6353),
                                                                 (unk 0 6351), ix
                                                    ld
284E DD
2852 C9
2852
2852
2853
2853
2853
2853
                                                    ret
                           ; End of function sub_0_281D
                                                  SUBROUTINE
2853
2853 FD 21 00 62
2857 3A 05 62
285A
                           sub_0_2853:
                                                                                                                                ; CODE XREF: sub 0 1AC3+15D p
                                                                iy, #mario_alive_flag
a, (mario_x_coord)
                                                    ld
285A
285A C6 OC
285C 4F
285D 3A 10 60
                           loc_0_285A:
                                                    add
                                                                 a, #0xC
                                                    ld
ld
                                                                c, a
a, (controller_in)
#3
2860 E6 03
2862 21 08 05
2865 CA 6B 28
2868 21 08 13
                                                    and
ld
                                                                                                                               ; left/right only
                                                                hl, #0x508
Z, loc_0_286B
hl, #0x1308
                                                                                                                                ; not left/right
                                                    jp
ld
286B
286B CD 88 3E
                           loc_0_286B:
                                                                                                                                ; CODE XREF: sub_0_2853+12\uparrow j
                                                    call
                                                                sub_0_3E88
286E C9
                                                    ret
                           ; End of function sub_0_2853
286F
286F
                                                   SUBROUTINE
286F
286F
286F
                           sub_0_286F:
                                                                                                                                ; CODE XREF: sub_0_2808+B1p
286F 3A 27 62
286F
2872 E5
2873 EF
                                                                                                                                ; sub_0_281D+1E<sup>†</sup>p
                                                    ld
                                                                     (level_type)
                                                    push
                                                                 0x28
                                                                                                                                ; go!
                                                    rst
2873 EF
2873 2874 00 00
2876 80 28
2878 BO 28
287A EO 28
287C 01 29
287E 00 00
                                                    .dw 0 .dw 11_check_hammer_hit
                                                                                                                                ; Jump table
                                                    .dw 12_check_hammer_hit
.dw 13_check_hammer_hit
.dw 14_check_hammer_hit
287E 00 00
2880
2880
2880 E1
2881 06 0A
2883 78
2884 32 B9 63
2887 11 20 00
288A DD 21 00 67
288E CD 13 29
2891 06 05
                                                     .dw
                                                                                                                                ; DATA XREF: sub_0_286F+7↑o
                           11_check_hammer_hit:
                                                    pop
ld
                                                                b, #0xA
a, b
(unk_0_63B9), a
```

ld ld

ld ld call ld

1d

2893

2894 32 B9 63

de, #0x20; ' ' ix, #unk_0_6700

sub_0_2913 b, #5 a, b a, b (unk_0_63B9), a

```
2897 1E 20
2899 DD 21 00 64
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
                                                                                       e, #<mark>0x20</mark>;
ix, #unk ^
                                                                                                #unk 0 6400
                                                                                                                                                                          ; fireball character data
                                                                       ld
                                                                                      ix, #unk_U_6400
sub_0_2913
b, #1
a, b
(unk_0_63B9), a
                                                                       call
ld
ld
                                                                       ld
                                                                       ld
                                                                                       e, #0
ix, #unk_0_66A0
sub_0_2913
                                                                      call
  28AF C9
                                                                      ret
  28AF
28AF
28B0
                                     ; End of function sub_0_286F
  28B0
28B0
28B0 E1
28B0
                                                                                                                                                                          ; DATA XREF: sub_0_286F+9<sup>†</sup>o; sub_0_3E88+9<sup>†</sup>o
                                     12_check_hammer_hit:
                                                                                       hl
 28B0 28B1 06 05 28B3 78 28B4 32 B9 63 28B7 11 20 00 28BA DD 21 00 64 28BE CD 13 29 28C1 06 06 28C3 78
                                                                                      b, #5
a, b
(unk_0_63B9), a
                                                                       ld
ld
ld
                                                                                       de, #0x20; ' ' ix, #unk_0_6400
                                                                       1d
                                                                      ld
call
ld
                                                                                                                                                                          ; fireball character data
                                                                                        sub_0_2913
                                                                                       b, #6
a, b
                                                                       ld
  28C3 78
28C4 32 B9 63
28C7 1E 10
28C9 DD 21 A0 65
28CD CD 13 29
28D0 06 01
28D2 78
28D3 32 B9 63
                                                                      ld
ld
                                                                                        (unk_0_63B9), a
                                                                                       e, #0x10
ix, #unk_0_65A0
                                                                       ld
                                                                      call
ld
ld
ld
                                                                                        sub_0_2913
                                                                                       a, b
(unk_0_63B9), a
  28D6 1E 00
28D8 DD 21 A0 66
28DC CD 13 29
28DF C9
                                                                      ld
ld
                                                                                       e, #0
ix, #unk_0_66A0
sub_0_2913
                                                                       call
                                                                       ret
  28E0
28E0
28E0
                                    13_check_hammer_hit:
                                                                                                                                                                           ; DATA XREF: sub_0_286F+B<sup>†</sup>o; sub_0_3E88+B<sup>‡</sup>o
 28E0 E1
28E0 06 05
28E3 78
28E4 32 B9 63
28E7 11 20 00
28EA DD 21 00 64
28EE CD 13 29
28F1 06 0A
28F3 78
28F7 1E 10
28F9 DD 21 00 65
28FD CD 13 29
2900 C9
2901
  28E0 E1
                                                                                       hl
b, #5
                                                                                       a, b
(unk_0_63B9), a
de, #0x20; ''
ix, #unk_0_6400
                                                                       ld
                                                                       ld
                                                                       ld
ld
                                                                                                                                                                          ; fireball character data
                                                                      call
ld
ld
ld
                                                                                       sub_0_2913
b, #0xA
a, b
(unk_0_63B9), a
                                                                                       e, #0x10
ix, #unk_0_6500
                                                                       ld
                                                                      ld
call
                                                                                                                                                                           ; check if hammer hits a spring
                                                                                       sub_0_2913
                                                                      ret
  2901
2901
2901
2901 E1
                                                                                                                                                                           ; DATA XREF: sub_0_286F+D<sup>†</sup>o; sub_0_3E88+D<sup>†</sup>o
                                     14_check_hammer_hit:
 2901 E1
2901 2901 06 07
2904 78
2905 32 B9 63
2908 11 20 00
290B DD 21 00 64
290F CD 13 29
                                                                      pop
ld
ld
ld
ld
                                                                                       hl
b, #7
a, b
                                                                                        (unk_0_63B9), a
                                                                                       de, #0x20; ' ' ix, #unk_0_6400 sub_0_2913
                                                                      ld
call
                                                                                                                                                                           ; fireball character data
  2912 C9
2913
2913
2913
                                                                      ret
                                                                       SUBROUTINE
  2913
                                                                                                                                                                           ; CODE XREF: sub_0_286F+1F^p; sub_0_286F+2E^p ...
  2913
                                     sub_0_2913:
  2913 DD E5
2913
2913
2915
2915
2915 DD CB 00 46
2919 CA 4C 29
291C 79
PD 96 05
                                                                      push
                                                                                       ix
                                                                                                                                                                          ; CODE XREF: sub_0_2913+3B|j; check if hammer hits something else
                                     loc_0_2915:
                                                                                       0, 0(ix)
Z, loc_0_294C
                                                                       jp
ld
  291C 79
291D DD 96 05
2920 D2 25 29
2923 ED 44
                                                                                       a, c
5(ix)
NC, loc_0_2925
                                                                       sub
                                                                       jр
                                                                       neg
 2925 3C 2925 3C 2926 95 2927 DA 30 29 292A DD 96 0A 2930 2930 FD 7E 03 2933 DD 96 03 2936 D2 3B 2939 BD 44 293B 293B 293B 293B 94
                                     loc_0_2925:
                                                                                                                                                                           ; CODE XREF: sub_0_2913+D^j
                                                                                      a
1
C, loc_0_2930
0xA(ix)
NC, loc_0_294C
                                                                       inc
                                                                       sub
                                                                       jр
                                     loc_0_2930:
                                                                                                                                                                           ; CODE XREF: sub_0_2913+14 j
                                                                                       a, 3(iy)
3(ix)
                                                                       ld
                                                                       sub
                                                                                       NC, loc_0_293B
                                                                                                                                                                          ; CODE XREF: sub_0_2913+23 j
                                     loc 0 293B:
 293B 94 293C DA 45 29 293F DD 96 09 2942 D2 4C 29 2945 2945 3E 01 2947 DD E1 2949 33
                                                                                       h
C, loc_0_2945
9(ix)
NC, loc_0_294C
                                                                       sub
                                                                       jp
sub
                                                                       jр
                                     loc_0_2945:
                                                                                                                                                                          ; CODE XREF: sub_0_2913+29 j
                                                                       ld
                                                                                       a, #1
ix
                                                                      pop
inc
inc
                                                                                       sp
sp
 294A 33
294B C9
294C
294C
294C
294C DD 19
                                                                       ret
                                                                                                                                                                          ; CODE XREF: sub_0_2913+6<sup>†</sup>j; sub_0_2913+1A<sup>†</sup>j ...
                                     loc_0_294C:
  294C
                                                                       add
                                                                                       ix, de loc_0_2915
  294E 10 C5
2950 AF
                                                                       djnz
                                                                       xor
  2951 DD E1
2953 C9
                                                                                       ix
                                                                       pop
ret
```

```
2953 2953 2954 2954 2954 2954 29554 2956 F7 2957 CD 74 29 2958 32 18 62 295D 0F 295E 0F 295E 0F 296E F0 1296E F0 1296F CD 366 CD 2962 CD 2967 CD 66 CD 2967 CD 66 CD 2967 CD 66 CD 2967 CD 66 CD 2967 CD 67 
 2953
                                                     ; End of function sub_0_2913
                                                                                                   SUBROUTINE
                                                     sub_0_2954:
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_1AC3+171 p
                                                                                                                               a, #0xB
0x30
sub_0_2974
                                                                                                                                                                                                                                                           ; return if level bit not set
                                                                                                       rst
                                                                                                      call
ld
rrca
                                                                                                                                (unk_0_6218), a
                                                                                                       rrca
                                                                                                      ld
ld
and
                                                                                                                               (digital_snd_tmr_barrel_jump_priz), a
                                                                                                                               a, b
a
Z
                                                                                                       ret
                                                                                                       cp
jp
ld
                                                                                                                               #1
                                                                                                                               Z, loc_0_2
1(ix), #1
                                                                                                                                        loc_0_296F
                                                                                                       ret
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_2954+13 j
                                                    loc 0 296F:
 296F DD 36 11 01
                                                                                                                               0x11(ix), #1
                                                                                                       ld
 2973
2973
2973
                                                      ret; End of function sub_0_2954
 2974
2974
2974
2974
                                                                                                      SUBROUTINE
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
298B CP
298B CP
298B CP
298B CP
                                                      sub_0_2974:
                                                                                                                                                                                                                                                           ; CODE XREF: sub 0 2954+31p
                                                                                                                              iy, #mario_alive_flag
a, (mario_x_coord)
c, a
                                                                                                       ld
                                                                                                       ld
                                                                                                                               h1, #0x408
b, #2
de, #0x10
ix, #unk_0_6680
                                                                                                      ld
ld
ld
                                                                                                       ld
                                                                                                                                                                                                                                                           ; hammer character data
                                                                                                      call
ret
                                                                                                                               sub_0_2913
; End of function sub_0_2974
                                                                                                   SUBROUTINE
                                                      sub_0_298C:
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_3202+3C|p
                                                                                                                              hl, (unk_0_63C8)
a, 1
a, #0xE
1, a
d, (hl)
                                                                                                       ld
                                                                                                       ld
                                                                                                      add
ld
ld
                                                                                                      inc
ld
add
ld
                                                                                                                               1
                                                                                                                               a, (hl)
a, #0xC
e, a
2998 5F
2999 EB
299A CD FO 2F
299D 7E
299E FE BO
29AO DA AC 29
29A3 E6 OF
29A5 FE 08
29A7 D2 AC 29
29AA AF
                                                                                                      ex
call
ld
                                                                                                                               de
                                                                                                                                         hl
                                                                                                                               sub_0_2FF0
a, (h1)
                                                                                                                               a, (h) #0xB0
                                                                                                      cp
jp
and
cp
                                                                                                                               C, Lo
                                                                                                                                       loc_0_29AC
                                                                                                                               NC, loc_0_29AC
                                                                                                       jp
 29AB C9
29AC
29AC
 29AC
29AC 3E 01
29AC
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_298C+14<sup>†</sup> j ; sub_0_298C+1B<sup>†</sup> j
                                                     loc_0_29AC:
                                                                                                      ld
                                                                                                                               a, #1
 29AE C9
29AE
29AE
                                                     ret; End of function sub_0_298C
 29AF
 29AF
29AF
29AF
29AF
                                                                                                   SUBROUTINE
                                                                                                                                                                                                                                                          ; CODE XREF: sub 0 2B1C+7 p
29AF 3E 04 29B1 F7 21 00 62 29B6 3A 05 62 29B9 4F 29BA 21 08 04 29BD CD 22 2A 29C0 A7 29C4 3E 06 29C6 90 29C7
                                                     sub_0_29AF:
                                                                                                                              a, #4
0x30
iy, #mario_alive_flag
a, (mario_x_coord)
                                                                                                      ld
rst
ld
                                                                                                                                                                                                                                                           ; return if level bit not set
                                                                                                       ld
                                                                                                       ld
ld
                                                                                                       call
                                                                                                                               sub_0_2A22
                                                                                                                               a
Z, loc_0_2A20
                                                                                                       jp
ld
                                                                                                       sub
29C7
29C7
29C7 CA DO 29
29CA DD 19
                                                      loc_0_29C7:
                                                                                                                                                                                                                                                          ; CODE XREF: sub_0_29AF+1E|j
                                                                                                                               Z, loc_0_29D0 ix, de
                                                                                                       jр
                                                                                                       add
 29CC 3D
29CD C3 C7 29
29D0
                                                                                                       dec
                                                                                                       jp
                                                                                                                                loc_0_29C7
 29D0
29D0
29D0 DD 7E 05
29D0 DD 7E 05
29D3 D6 04
29D5 57
29D6 3A 0C 62
29D9 C6 05
                                                     loc_0_29D0:
                                                                                                                                                                                                                                                          ; CODE XREF: sub_0_29AF+18 j
                                                                                                                               a, 5(ix)
#4
                                                                                                       ld
                                                                                                       sub
                                                                                                                               d, a
a, (mario_y_before_jump)
a, #5
d
                                                                                                       ld
                                                                                                       ld
add
29D9 C6 05
29DB BA
29DC D2 EE 29
29DF 7A
29E0 D6 08
29E2 32 05 62
29E5 3E 01
29E7 47
29E8 32 98 63
                                                                                                      cp
jp
ld
sub
ld
ld
ld
                                                                                                                                                                                                                                                           ; check if on or below elevator
                                                                                                                               NC, loc_0_29EE
                                                                                                                                       ď
                                                                                                                                (mario_x_coord), a
                                                                                                                                                                                                                                                           ; flag on elevator
                                                                                                                                (mario_on_elevator), a
 29EB 33
29EC 33
                                                                                                      inc
inc
                                                                                                                                sp
```

```
29ED C9
                                                                                                                   ret
  29EE
299E 299E 3A 0C 62 299F1 D6 0E 299F3 BA 299F3 BA 10 62 299F4 D2 1B 2A 299F7 3A 10 62 299FA A7 299FB 3A 03 62 299FE CA 08 2A 200 E 20
                                                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_29AF+2D<sup>†</sup>j
; collide with side of elevator
                                                            loc_0_29EE:
                                                                                                                                               a, (mario_y_before_jump)
#0xE
                                                                                                                    sub
                                                                                                                    cp
jp
ld
                                                                                                                                               NC, loc_0_2A1B
a, (unk_0_6210)
                                                                                                                    and
ld
                                                                                                                                                a, (mario_y_coord)
Z, loc_0_2A08
                                                                                                                    jp
                                                                                                                    or
                                                                                                                    sub
                                                                                                                                                loc_0_2A0E
                                                            loc_0_2A08:
                                                                                                                                                                                                                                                                                          ; CODE XREF: sub_0_29AF+4Ffj
                                                                                                                    sub
                                                                                                                    add
                                                                                                                                                a. #4
                                                            loc_0_2A0E:
                                                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_29AF+56 j
                                                                                                                                               (mario_y_coord), a
(soft_sprite_ram+0x4C), a
                                                                                                                    ld
                                                                                                                    ld
                                                                                                                    ld
ld
                                                                                                                    inc
                                                                                                                                                sp
                                                            loc_0_2A1B:
                                                                                                                                                                                                                                                                                           ; CODE XREF: sub 0 29AF+451j
                                                                                                                    ld
                                                                                                                                                (mario_alive_flag), a
ret
                                                            loc_0_2A20:
                                                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_29AF+12|j
                                                                                                                    ld
                                                                                                                                               b, a
                                                            ret; End of function sub_0_29AF
                                                                                                               SUBROUTINE
                                                            sub 0 2A22:
                                                                                                                                                                                                                                                                                           ; CODE XREF: sub 0 29AF+E1p
                                                                                                                                              b, #6
de, #0x10
ix, #unk_0_6600
                                                                                                                    ld
ld
                                                                                                                    ld
                                                            call sub_(
ret
; End of function sub_0_2A22
                                                                                                                                                 sub_0_2913
 2A2E
2A2F
2A2F
2A2F
2A2F
                                                                                                                 SUBROUTINE
2A2F 2A2F 2A2F 0 7E 03 2A2F 2A32 67 2A33 DD 7E 05 2A36 6F 2A39 E5 2A3 CD F0 2F 2A3D D1 2A3E 7E 80 2A41 DA 7B 2A 2A44 E6 0F 08
                                                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_1F72+E5^p; sub_0_1F72+188^p
                                                            sub_0_2A2F:
                                                                                                                                              a, 3(ix)
h, a
a, 5(ix)
a, #4
l, a
hl
                                                                                                                    ld
                                                                                                                    ld
                                                                                                                    ld
add
                                                                                                                    1d
                                                                                                                    push
call
pop
ld
                                                                                                                                              hl

sub_0_2FF0

de

a, (hl)

#0xB0; '\'''

C, loc_0_2A7B

#0xF
                                                                                                                    cp
jp
and
 2A46 FE 08
2A48 D2 7B 2A
2A4B 7E
2A4C FE C0
                                                                                                                    cp
jp
ld
                                                                                                                                               #8
NC, loc_0_2A7B
a, (hl)
#0xC0; 'L'
                                                                                                                    cp
jp
jp
2A4C FE CO
2A4E CA 7B 2A
2A51 DA 69 2A
2A54 FE DO
2A56 DA 6E 2A
2A59 FE EO
2A5B DA 63 2A
2A5E FE FO
                                                                                                                                                Z, loc_0_2A7B
C, loc_0_2A69
#0xD0; 'ŏ'
C, loc_0_2A6E
                                                                                                                    cp
jp
cp
                                                                                                                                                           loc_0_2A63
                                                                                                                                                #0xF0 ;
                                                                                                                    cp
jp
2A5E FE F0
2A60 DA 6E 2A
2A63
2A63
2A63 E6 0F
2A65 3D
                                                                                                                                               C, loc_0_2A6E
                                                             loc_0_2A63:
                                                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_2A2F+2C1j
                                                                                                                                                #0xF
                                                                                                                    and
dec
 2A66 C3 72 2A
2A69
2A69
                                                                                                                    jp
                                                                                                                                                loc_0_2A72
  2A69
                                                            loc_0_2A69:
                                                                                                                                                                                                                                                                                           ; CODE XREF: sub 0 2A2F+221j
  2A69 3E FF
2A6B C3 72 2A
                                                                                                                                                a, #0xFF
loc_0_2A72
                                                                                                                    ld
                                                                                                                    jр
  2A6E
 2A6E
2A6E
2A6E E6 OF
                                                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_2A2F+27\uparrow j; sub_0_2A2F+31\uparrow j
                                                            loc_0_2A6E:
2A6E 2A70 D6 09 2A72 2A72 4F 2A72 2A73 7B 2A74 86 F8 2A76 81 2A77 BB 2A78 DA 7D 2A 2A7B 2A7B AF 2A7B AF 2A7B AF 2A7B AF 2A7B AF 2A7B C976 C9
  2A6E
                                                                                                                    and
                                                                                                                                                 #0xF
                                                                                                                    sub
                                                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_2A2F+37<sup>†</sup> j ; sub_0_2A2F+3C<sup>†</sup> j
                                                           loc_0_2A72:
                                                                                                                                                c, a
a, e
#0xF8 ; '°'
                                                                                                                    ld
ld
                                                                                                                    add
                                                                                                                                               e
C, loc_0_2A7D
                                                                                                                    ср
                                                                                                                    jр
                                                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_2A2F+12\uparrow j; sub_0_2A2F+19\uparrow j ...
                                                            loc_0_2A7B:
                                                                                                                    xor
                                                                                                                                               а
  2A7C C9
                                                                                                                    ret
  2A7D
```

```
2A7D
2A7D D6 04
2A7F DD 77 05
2A82 3E 01
2A84 C9
2A84
2A84
2A85
2A85
                                                                                                                                           ; CODE XREF: sub 0 2A2F+491i
SUBROUTINE
                             sub_0_2A85:
                                                                                                                                           ; CODE XREF: 0000:19A1\p
                                                                      a, (mario_climbing)
                                                        ld
                                                        and
ret
ld
                                                                                                                                           ; climbing?
; yes, return
                                                                      NZ
                                                                      a, (mario_jumping)
a
                                                         and
ret
ld
                                                                                                                                           ; jumping?
; yes, return
                                                                      NZ
                                                                      a, (mario_on_elevator)
#1
                                                        cp
ret
ld
                                                                                                                                            ; on elevator?
                                                                      a, (mario_y_coord)
                                                                                                                                            ; yes, return
                                                         sub
ld
                                                                      h, a
                                                        ld
add
                                                                      a, (mario_x_coord)
a, #0xC
1, a
                                                         ld
                                                        push
call
                                                                      h1
                                                                      sub_0_2FF0
de
a, (h1)
                                                         pop
ld
2AA7 FE B0
2AA9 DA B4 2A
2AAC E6 OF
2AAE FE 08
                                                        cp
jp
and
                                                                       #0×B0
                                                                           loc_0_2AB4
                                                                       C, 1
#0xF
                                                         Cρ
2AB0 D2 B4 2A
2AB3 C9
2AB4
                                                                      NC, loc_0_2AB4
2AB4
2AB4
2AB4 7A
2AB4 7A
2AB5 E6 07
2AB7 CA CD
2ABA 01 20
                                                                                                                                            ; CODE XREF: sub_0_2A85+24<sup>†</sup> j ; sub_0_2A85+2B<sup>†</sup> j
                             loc_0_2AB4:
                                                                      a, d
#7
                                                         ld
2AB5 E6 07
2AB7 CA CD 2A
2ABA 01 20 00
2ABD ED 42
2ABF 7E
2AC0 FE B0
2AC2 DA CD 2A
2AC5 E6 0F
2AC7 FE 08
2AC9 D2 CD 2A
2ACC C9
                                                         and
                                                                      T, loc_0_2ACD
bc, #0x20; 'hl, bc
a, (hl)
                                                         jp
ld
                                                         sbc
ld
                                                                      a, (h1)
#0xB0; '\"'
C, loc_0_2ACD
#0xF
                                                         ср
                                                         jp
and
                                                         cp
jp
                                                                      NC, loc_0_2ACD
2ACD
2ACD
2ACD
2ACD 3E 01
                                                                                                                                           ; CODE XREF: sub_0_2A85+32<sup>†</sup> j ; sub_0_2A85+3D<sup>†</sup> j ...
                             loc_0_2ACD:
2ACD
2ACF 32 21 62
2AD2 C9
2AD2
                                                         1d
                                                                            #1
                                                        ld
ret
                                                                       (unk_0_6221), a
                             ; End of function sub_0_2A85
SUBROUTINE
                             sub_0_2AD3:
                                                                                                                                           ; CODE XREF: sub_0_25F2+C\p
                                                                      a, (mario_y_coord)
                                                         ld
                                                                      b, a
a, (mario_x_coord)
                                                         ld
                                                        ld
cp
                                                                       #0x50 ; 'P'
Z, loc_0_2AEA
                                                         jp
cp
jp
                                                                      #0x78; 'x'
Z, loc_0_2AF6
                                                         cp
jp
                                                                      #0xC8; 'L'
Z, loc_0_2AF0
2AEO CA
2AE9 C9
2AEA
2AEA
2AEA
                                                                                                                                           ; CODE XREF: sub 0 2AD3+91i
                             loc 0 2AEA:
2AEA 3A A3 63
2AED C3 02 2B
2AF0
                                                         1d
                                                                           (unk_0_63A3)
                                                         jр
                                                                       loc_0_2B02
loc_0_2AF0:
                                                                                                                                            ; CODE XREF: sub_0_2AD3+13 j
                                                                           (unk_0_63A6)
                                                                       loc 0 2B02
                                                         jр
                                                                                                                                            ; CODE XREF: sub_0_2AD3+E^jj
                             loc_0_2AF6:
                                                         ld
                                                                      a, b
                                                                      #0x80; 'Ç'
a, (unk_0_63A5)
NC, loc_0_2B02
a, (unk_0_63A4)
                                                        cp
ld
                                                         jp
ld
2B02
2B02
2B02 80
                                                                                                                                            ; CODE XREF: sub_0_2AD3+1A\uparrow j ; sub_0_2AD3+20\uparrow j ...
                             loc_0_2B02:
2B02 2B03 32 03 62 2B06 32 4C 69 2B09 CD 1F 24 2B0C 21 03 62 2B0F 1D 2B10 CA 18 2B 2B13 15 2B14 CA 1A 2B 2B17 C9 2B18 2B18 2B18 2B18 2B18 2B18 2B18 2B19 C9 2B1A
2B02
                                                         add
                                                                      a. b
                                                                      (mario_y_coord), a
(soft_sprite_ram+0x4C), a
sub_0_241F
                                                        ld
ld
                                                        call
ld
dec
jp
                                                                      hl, #mario_y_coord
                                                                       e
Z, loc_0_2B18
                                                                      d
Z, loc_0_2B1A
                                                         dec
                                                        jp
ret
                             loc_0_2B18:
                                                                                                                                           ; CODE XREF: sub_0_2AD3+3D<sup>†</sup> j
                                                        dec
ret
2B1A
```

2B1A

```
; CODE XREF: sub_0_2AD3+41 j
                                                       loc_0_2B1A:
2B1A 34
2B1B C9
2B1B
2B1B
                                                                                                            inc
                                                                                                                                      (h1)
                                                       ret; End of function sub_0_2AD3
2B1B
2B1C
2B1C
2B1C
2B1C
2B1C
2B1C
2B1C DD 21 00 62
2B20 CD 29 2B
2B23 CD AF 29
2B26 AF 29
                                                                                                       SUBROUTINE
                                                       sub_0_2B1C:
                                                                                                                                                                                                                                                                        ; CODE XREF: sub 0 1AC3+1421p
                                                                                                                                      ix, #mario_alive_flag
sub_0_2B29
sub_0_29AF
                                                                                                            ld
                                                                                                            call
                                                                                                            call
2B26 AF
2B27 47
2B28 C9
                                                                                                            xor
                                                                                                            ld
                                                                                                            ret
                                                        ; End of function sub_0_2B1C
2B28
                                                                                                        SUBROUTINE
                                                        sub_0_2B29:
                                                                                                                                                                                                                                                                        ; CODE XREF: sub_0_2B1C+41p
                                                                                                            ld
                                                                                                                                      a, (level type)
                                                                                                            dec
                                                                                                                                      NZ, loc_0_2B53
a, (mario_y_coord)
                                                                                                                                      a, (r
h, a
                                                                                                            ld
                                                                                                            14
                                                                                                                                                 (mario_x_coord)
                                                                                                            add
ld
call
                                                                                                                                      sub_0_2B9B
2B3D A7
2B3E CA 51 2B
2B41 7B
2B42 91
                                                                                                            and
jp
ld
                                                                                                                                      a
Z, loc_0_2B51
                                                                                                                                      a, e
2841 78
2842 91
2843 FE 04
2845 D2 74 28
2848 79
2849 D6 07
2848 32 05 62
2856 47
2851 E1
2851 E1
2851 E1
2853 2853
2853 2853
2853 3A 03 62
2856 D6 03
2858 67
2859 3A 05 62
2856 C7
2856 67
2857 CD 98
2858 67
2858 67
2859 G7
2859 G7
2859 G8 28
2864 CA 7A 28
                                                                                                            sub
                                                                                                            cp
jp
ld
                                                                                                                                      NC, loc_0_2B74
                                                                                                            sub
                                                                                                            ld
ld
                                                                                                                                       (mario_x_coord), a
                                                                                                                                      b, a
                                                                                                            ld
                                                       loc_0_2B51:
                                                                                                                                                                                                                                                                        ; CODE XREF: sub_0_2B29+15<sup>†</sup>j
                                                                                                            pop
                                                                                                                                                                                                                                                                        ; CODE XREF: sub_0_2B29+4^j
                                                        loc_0_2B53:
                                                                                                            ld
                                                                                                                                              (mario_y_coord)
                                                                                                            sub
ld
ld
                                                                                                                                               (mario_x_coord)
                                                                                                                                      a,
                                                                                                            add
ld
call
                                                                                                                                      a, #7
1, a
                                                                                                                                      sub_0_2B9B
2856 CD 98 2

2864 CA 7A 2B

2867 7A 7

2868 CG 07 7

2868 GB 6B 2

2860 CD 98 2B

2870 C8 2B

2871 C3 7A 2B

2874 2B

2874 3E 00 2B

2876 06 00 2B

2878 E1 2B

2879 C9 2B

2870 C9 2B

2870 C9 2B

2871 C3 7A 2B

2874 SE 00 2B

2874 SE 00 2B

2876 06 00 2B

2878 E1 2B

2870 C9 2B

2
                                                                                                            cp
jp
ld
add
ld
                                                                                                                                      Z, loc_0_2B7A
a, d
a, #7
                                                                                                                                      h, a
                                                                                                            ld
                                                                                                            call
and
                                                                                                                                      sub_0_2B9B
                                                                                                            ret
                                                                                                                                       loc 0 2B7A
                                                       loc_0_2B74:
                                                                                                                                                                                                                                                                        ; CODE XREF: sub_0_2B29+1Cfj
                                                                                                                                     a, #0
b, #0
hl
                                                                                                            ld
                                                                                                            ld
                                                                                                            pop
                                                                                                                                                                                                                                                                          ; CODE XREF: sub_0_2B29+3B1j
                                                       loc 0 2B7A:
287A 287A 3A 10 62 287A 287D A7 287E 3A 03 62 2881 CA 8B 2B 284 F6 07 2886 D6 04 2888 C3 91 2B
                                                                                                                                                                                                                                                                          ; sub_0_2B29+481j
                                                                                                            ld
                                                                                                                                      a, (unk_0_6210)
                                                                                                            and
ld
                                                                                                                                                (mario v coord)
                                                                                                            jp
or
                                                                                                                                                loc_0_2B8B
                                                                                                            sub
                                                                                                                                      loc 0 2B91
                                                                                                            jp
2B88 C3 91
2B8B
2B8B
2B8B D6 08
2B8D F6 07
2B8F C6 04
2B91
2B91
                                                                                                                                                                                                                                                                         ; CODE XREF: sub 0 2B29+581 j
                                                       loc_0_2B8B:
                                                                                                            sub
                                                                                                                                      a, #4
                                                                                                            add
2B91
2B91 32 03 62
2B94 32 4C 69
2B97 3E 01
                                                       loc 0 2B91:
                                                                                                                                                                                                                                                                        ; CODE XREF: sub 0 2B29+5F11
                                                                                                                                      (mario_y_coord), a
(soft_sprite_ram+0x4C), a
                                                                                                            14
                                                                                                            ld
                                                                                                            ld
                                                                                                                                       a. #1
2B99 E1
2B9A C9
2B9A
                                                                                                                                      hl
                                                        ; End of function sub_0_2B29
 2B9A
2B9B
2B9B
2B9B
                                                                                                         SUBROUTINE
2B9B
2B9B
2B9B E5
                                                                                                                                                                                                                                                                          ; CODE XREF: sub_0_2B29+11<sup>p</sup>; sub_0_2B29+36<sup>p</sup>...
                                                       sub_0_2B9B:
 2B9B
                                                                                                            push
call
                                                                                                                                      hl
2B9B
2B9C CD F0 2F
2B9F D1
2BA0 7E
2BA1 FE B0
2BA3 DA D9 2B
2BA6 E6 0F
2BA8 FE 08
2BAA D2 D9 2B
                                                                                                                                      sub_0_2FF0
de
a, (hl)
                                                                                                            pop
ld
                                                                                                            cp
jp
and
                                                                                                                                       #0xB0 ;
                                                                                                                                                loc_0_2BD9
                                                                                                            ср
                                                                                                                                      NC, loc_0_2BD9
a, (h1)
2BAA D2 D9 2B
2BAD 7E
```

```
2BAE FE CO 2BBO CA D9 2B 2BB3 DA DC 2B 2BB6 FE DO 2BB8 DA CC 2B
                                                                            #0xC0 ; 'L'
                                                             jp
jp
cp
                                                                           Z, loc_0_2BD9
                                                                                loc_0_2BDC
                                                                           #0xD0 ; 'ð'
C, loc_0_2BCB
2BB8 DA CB 2B
2BBB FE E0
2BBD DA C5 2B
2BC0 FE F0
2BC2 DA CB 2B
2BC5
2BC5
2BC5 6 0F
2BC7 3D
2BC8 C3 CF 2B
                                                            cp
jp
cp
                                                                           #0xE0 ;
                                                                           C, loc_0_2BC5
#0xF0; '-'
C, loc_0_2BCB
                               loc_0_2BC5:
                                                                                                                                                    ; CODE XREF: sub_0_2B9B+221j
                                                                           #0xF
                                                             dec
2BC8 C3 CF 2B
2BCB
2BCB
2BCB
                                                                           loc_0_2BCF
                                                             jр
                                                                                                                                                     ; CODE XREF: sub_0_2B9B+1D j
                               loc 0 2BCB:
2BCB E6 OF
2BCB 2BCD D6 O9
                                                                                                                                                     ; sub_0_2B9B+271j
                                                                            #0xF
                                                             sub
2BCF
2BCF
2BCF 4F
2BD0 7B
                               loc_0_2BCF:
                                                                                                                                                     ; CODE XREF: sub_0_2B9B+2D<sup>†</sup>j
                                                             1d
2BD0 7B
2BD1 E6 F8
2BD3 81
2BD4 4F
2BD5 BB
2BD6 DA E1 2B
2BD9
2BD9
2BD9
2BD9
2BD9
2BD9
                                                                           a, e
#0xF8 ; '°'
                                                             and
                                                             add
ld
                                                                           a, c
c, a
                                                             ср
                                                                           e
C, loc_0_2BE1
                                                                                                                                                     ; CODE XREF: sub_0_2B9B+8<sup>†</sup>j; sub_0_2B9B+F<sup>†</sup>j ...
                               loc_0_2BD9:
2BD9 AF
2BD9 2BDA 47
2BDB C9
2BDC 2BDC 2BDC 2BDC 2BDC 7B
                                                            xor
ld
                                                                           b, a
                                                             ret
                               loc_0_2BDC:
                                                                                                                                                     ; CODE XREF: sub_0_2B9B+18 i
                                                             ld
                                                                           a, e
#0xF8 ; '°'
2BDD E6 F8
                                                             and
2BDF 3D
2BE0 4F
2BE1
2BE1
2BE1 3A 0C 62
2BE4 DD 96 05
2BE7 83
2BE8 B9
                                                                                                                                                    ; CODE XREF: sub_0_2B9B+3Bfj
                               loc_0_2BE1:
                                                            ld
sub
                                                                                 (mario_y_before_jump)
                                                                           a, e
c
Z, lo
                                                             add
                                                             cp
2BE0 B3
2BE9 CA EF 2B
2BEC D2 F8 2B
                                                                           Z, loc_0_2BEF
NC, loc_0_2BF8
                                                             jр
2BEF
2BEF
2BEF 79
2BF0 D6 07
2BF2 32 05 62
2BF5 C3 FD 2B
2BF8
2BF8
                               loc_0_2BEF:
                                                                                                                                                    ; CODE XREF: sub_0_2B9B+4E1j
                                                             ld
                                                             sub
                                                                            1d
                                                             jp
                                                                           loc_0_2BFD
2BF8
2BF8 3E 02
2BFA 06 00
2BFC C9
2BFD 2BFD
2BFD 3E 01
2BFF 47
                               loc_0_2BF8:
                                                                                                                                                    ; CODE XREF: sub_0_2B9B+51 j
                                                             ret
                                                                                                                                                     ; CODE XREF: sub_0_2B9B+5A j
                               loc_0_2BFD:
                                                             ld
                                                                           a, #1
b, a
hl
hl
2BFD 3E
2BFF 47
2C00 E1
2C01 E1
2C02 C9
2C02
2C02
2C03
                                                             14
                                                             pop
                                                             pop
                                                             ret
                               ; End of function sub_0_2B9B
2C03
2C03
2C03
2C03
                                                          S U B R O U T I N E
                                                                                                                                                     ; CODE XREF: 0000:19891p
                               sub 0 2C03:
2C03 3E 01
2C05 F7
2C06 D7
2C07 3A 93
                                                                           a, #1
0x30
0x10
                                                             1d
                                                             rst
                                                                                                                                                     ; return if level bit not set
; return if mario not alive
                                                             rst
2C06 D7
2C07 3A 93 63
2C0A 0F
2C0B D8
2C0C 3A B1 62
2C0F A7
                                                             1d
                                                                           a, (barrel_deployment)
                                                            rrca
ret
ld
                                                                           a, (unk 0 62B1)
                                                             and
2C10 C8
2C11 4F
2C12 3A B0 62
2C15 D6 02
                                                             ret
ld
2C12
2C15
2C17
2C18
2C18
                                                                           a, (unk_0_62B0)
#2
                                                             ld
                                                             sub
2C15 D6 02
2C17 B9
2C18 DA 7B 2C
2C1B 3A 82 63
2C1E CB 4F
2C20 C2 86 2C
2C23 3A 80 63
2C26 47
                                                             cp
jp
ld
                                                                           C
C, loc_0_2C7B
a, (unk_0_6382)
                                                            bit
jp
ld
                                                                           NZ, loc_0_2C86
a, (unk_0_6380)
                                                                           a, (1
b, a
                                                             ld
2026 47
2027 3A 1A 60
202A E6 1F
202C
202C
202C
202C B8
202D CA 33 2C
2030 10 FA
2032 C9
2033
2033
2033
                                                            ld
and
                                                                           a, (gen_purpose_timer) #0x1F
                                                                                                                                                    ; CODE XREF: sub 0 2C03+2D-i
                               loc 0 2C2C:
                                                                           b
Z, loc_0_2C33
loc_0_2C2C
                                                             jp
djnz
                                                                                                                                                    ; CODE XREF: sub 0 2C03+2A1 j
2C33
2C33 3A B0 62
                               loc 0 2C33:
                                                             ld
                                                                           a, (unk_0_62B0)
        CB 3F
B9
                                                             srl
2C38 B9
2C39 DA 41 2C
2C3C 3A 19 60
2C3F 0F
2C40 D0
                                                             ср
                                                                           c
C, loc_0_2C41
                                                             jp
ld
                                                                                 (random_no+1)
                                                             rrca
                                                                           NC
                                                            ret
2C41
                              loc_0_2C41:
                                                                                                                                                     ; CODE XREF: sub_0_2C03+36 j
```

```
2C41 CD 57 00
                                                             call
                                                                            rand
 2C44 E6 OF
                                                              and
                                                                            NZ, loc_0_2C86
                               loc_0_2C49:
                                                                                                                                                     ; CODE XREF: sub_0_2C03+7B|j
                                                             ld
                                                                            a, #1
                                                                                                                                                     ; CODE XREF: sub_0_2C03+80|j
                                loc_0_2C4B:
                                                                            (unk_0_6382), a
                                                              ld
 2C4E 3C
2C4F
2C4F
2C4F 32 8F 63
                                                             inc
                                                                                                                                                     ; CODE XREF: sub_0_2C03+89|j
                                loc_0_2C4F:
                                                                            (unk_0_638F), a
                                                              ld
 2C52 3E 01
2C54 32 92 63
2C57 3A B2 62
2C5A B9
                                                             ld
ld
ld
                                                                            (unk_0_6392),
                                                                            a, (unk_0_62B2)
                                                             cp
ret
sub
ld
2C5A B9
2C5B C0
2C5C D6 08
2C5E 32 B2 62
2C61 11 20 00
2C64 21 00 64
2C67 06 05
2C69
                                                                            NZ
                                                                            #8
(unk_0_62B2), a
                                                                            de, #0x20; ' h1, #unk_0_6400 b, #5
                                                              ld
                                                              ld
                                                                                                                                                    ; fireball character data
2C69
2C69 7E
2C69 7E
2C6A A7
2C6B CA 72 2C
2C6F 19
2C6F 10 F8
2C71 C9
2C72
                                loc_0_2C69:
                                                                                                                                                     ; CODE XREF: sub 0 2C03+6C-i
                                                             ld
and
                                                                            a, (hl)
                                                                            a
Z, loc_0_2C72
hl, de
                                                              jp
add
                                                              djnz
                                                                            loc_0_2C69
                                                              ret
2C72
2C72
2C72
2C72 3A 82 63
2C75 F6 80
2C77 32 82 63
2C7A C9
2C7B
                                loc_0_2C72:
                                                                                                                                                    ; CODE XREF: sub_0_2C03+68 j
                                                                            a, (unk_0_6382)
#0x80; 'Ç'
                                                              ld
                                                              or
                                                                            (unk_0_6382), a
                                                              1d
 2C7B

2C7B

2C7B

2C7B C6 02

2C7D B9

2C7E CA 49 2C

2C81 3E 02

2C83 C3 4B 2C
                                loc_0_2C7B:
                                                                                                                                                     ; CODE XREF: sub_0_2C03+15 j
                                                                            a, #2
                                                              add
                                                              ср
                                                                            Z, loc_0_2C49
                                                              jp
ld
jp
                                                                            loc_0_2C4B
 2C86
 2086
 2C86
2C86 AF
                                loc_0_2C86:
                                                                                                                                                      ; CODE XREF: sub_0_2C03+1D\uparrow j; sub_0_2C03+43\uparrow j
 2C86 2C87 32 82 63 2C8A 3E 03 2C8C C3 4F 2C
                                                              xor
                                                                            (unk_0_6382), a
a, #3
loc_0_2C4F
                                                              ld
ld
                                                              jр
 2C8C
2C8C
2C8F
2C8F
                                ; End of function sub_0_2C03
                                                           SUBROUTINE
 2C8F
2C8F
2C8F
                                sub_0_2C8F:
                                                                                                                                                      ; CODE XREF: 0000:1986 p
2C8F 2C8F 3E 01 2C91 F7 2C92 D7 2C93 3A 93 63 2C96 0F 2C97 DA 15 2D 2C9A 3A 92 63 2C9D 0F 2C9F D0
                                                                            a, #1
0x30
0x10
                                                              ld
                                                                                                                                                     ; return if level bit not set ; return if mario not alive
                                                              rst
                                                              rst
ld
                                                                            a, (barrel_deployment)
                                                              rrca
                                                                            C, loc_0_2D15
a, (unk_0_6392)
                                                              rrca
 2C9E DO 21 00 67 2CA3 11 20 00 2CA6 06 0A
                                                             ret
ld
ld
                                                                           ix, #unk_0_6700
de, #0x20; ''
b, #0xA
                                                              ld
 2CA8
2CA8
2CA8 DD 7E 00
2CAB OF
                                loc_0_2CA8:
                                                                                                                                                     ; CODE XREF: sub_0_2C8F+26|j
                                                              ld
                                                                           a, 0(ix)
2CAB 0F
2CAC DA B3 2C
2CAF 0F
2CB0 D2 B8 2C
2CB3
2CB3
2CB3 DD 19
2CB5 10 F1
2CB7 C9
                                                              rrca
                                                              jp
rrca
                                                                           C, loc_0_2CB3
                                                                            NC, loc_0_2CB8
                                                              jр
                               loc_0_2CB3:
                                                                                                                                                     ; CODE XREF: sub_0_2C8F+1D<sup>†</sup> j
                                                                            loc_0_2CA8
                                                             djnz
2CB5 10 F1
2CB7 C9
2CB8
2CB8
2CB8
2CB8 DD 22 AA 62
2CBC DD 36 00 02
2CC2 3E 0A
2CC4 90
2CC5 87
2CC7 5F
2CC8 21 80 69
2CCB 19
2CCC 22 AC 62
2CD1 32 93 63
2CD4 11 01 05
2CDA 21 B1 62
2CDD 35
2CDA 21 B1 62
2CDD 35
2CDE C2 E6 2C
2CE1 3E 01
                                                                                                                                                      ; CODE XREF: sub 0 2C8F+21 j
                                loc_0_2CB8:
                                                                            (unk_0_62AA), ix
                                                              ld
                                                             ld
ld
ld
                                                                            0(ix), #2
d, #0
a, #0xA
b
                                                             add
add
ld
ld
add
ld
                                                                            a, a
                                                                            hl, #soft_sprite_ram+0x80
hl, de
(unk_0_62AC), hl
                                                              ld
                                                                           a, #1
(barrel_deployment), a
de, #0x501
queue_fg_vector_fn
h1, #unk_0_62B1
(h1)
NZ, loc_0_2CE6
a, #1
(unk_0_6386), a
                                                             ld
ld
                                                                                                                                                     ; update_bonus_timer
                                                             call
ld
dec
jp
ld
 2CE1 3E 01
2CE3 32 86 63
                                                                            a, #1
(unk_0_6386), a
                                                              ld
 2CE6
2CE6
2CE6 7E
                                                                                                                                                    ; CODE XREF: sub_0_2C8F+4Ffj
                                loc_0_2CE6:
                                                                            a, (hl)
#4
                                                              ld
                                                             cp
jp
ld
         FE 04
 2CE7 FE 04
2CE9 D2 F6 2C
2CEC 21 A8 69
2CEF 87
                                                                            NC, loc_0_2CF6
hl, #soft_sprite_ram+0xA8
                                                              add
 2CF0 87
```

```
2CF1 5F
2CF2 16 00
2CF4 19
2CF5 72
2CF6
                                                                        ld
                                                                                        e, a
d, #0
hl, de
(hl),
                                                                                               #0
de
d
                                                                        ld
                                                                       add
ld
                                                                                                                                                                              ; CODE XREF: sub_0_2C8F+5A^j; sideways barrel sprite tile
                                    loc_0_2CF6:
 2CF6
 2CF6 DD 36 07 15
2CFA DD 36 08 0B
2CFE DD 36 15 00
                                                                                        7(ix), #0x15
8(ix), #0xB
0x15(ix), #0
a, (unk_0_6382)
                                                                        14
                                                                        ld
ld
           3A 82 63
                                                                        ld
2D02 3A 82 63

2D05 07

2D06 D2 15 2D

2D09 DD 36 07 19

2D0D DD 36 08 0C

2D11 DD 36 15 01

2D15

2D15
                                                                        rlca
                                                                                        NC, loc_0_2D15
7(ix), #0x19
8(ix), #0xC
                                                                        jp
ld
                                                                                                                                                                               ; sideways blue barrel sprite tile
                                                                        1d
                                                                                                                                                                              ; set blue palette for barrel
                                                                                         0x15(ix), #1
                                                                                                                                                                              ; CODE XREF: sub_0_2C8F+8<sup>†</sup>j; sub_0_2C8F+77<sup>†</sup>j
                                    loc 0 2D15:
2D15
2D15
2D15
2D15
2D18
35
2D19
CO
2D1A
36
18
2D1C
3A
8F
63
2D1F
A7
                                                                                        hl, #unk_0_62AF (hl)
                                                                       ld
dec
                                                                        ret
                                                                                         NZ
                                                                        ld
ld
                                                                                         (hl), #0x18
                                                                                         a, (unk_0_638F)
                                                                        and
                                                                                        a
Z, loc_0_2D51
 2D20 CA 51 2D
                                                                        jp
ld
ld
 2D23 4F
2D24 21 32 39
2D27 3A 82 63
2D2A 0F
                                                                                         c, a
hl, #dk_throw_barrel_spr
                                                                        ld
                                                                                        a, (unk_0_6382)
                                                                        rrca
 2D2A OF
2D2B DA 2F 2D
2D2E OD
2D2F
                                                                       jp
dec
                                                                                         C, loc_0_2D2F
2D2E UD
2D2F
2D2F 79
2D30 87
2D31 87
2D32 87
2D33 4F
2D34 87
2D35 87
2D36 81
2D37 5F
2D38 16 00
2D3A 19
2D3B CD 4E 00
2D3A 19
2D3B CD 4E 00
2D3A 2D4 35
2D42 C2 51 2D
2D45 3E 01
2D47 32 AF 62
2D4A 3A 82 63
2D4D 0F
2D4E DA 83 2D
2D51 2D51
                                    loc_0_2D2F:
                                                                                                                                                                              ; CODE XREF: sub_0_2C8F+9Cfj
                                                                       1d
                                                                       add
                                                                                        a, a
a, a
                                                                        add
                                                                       add
ld
add
                                                                        add
                                                                       add
ld
ld
                                                                                        a, c
e, a
d, #0
hl, de
                                                                        add
                                                                                        copy_sprites_2_11_data
h1, #unk_0_638F
(h1)
                                                                        call
ld
                                                                        dec
                                                                        jp
ld
ld
                                                                                        NZ, loc_0_2D51
a, #1
                                                                                         a, #1
(unk_0_62AF),
                                                                                        a, (unk_0_6382)
                                                                        ld
                                                                        rrca
                                                                       jp
                                                                                        C, loc_0_2D83
2D51
2D51 2A A8 62
2D51
2D54
                                                                                                                                                                              ; CODE XREF: sub_0_2C8F+91^j; sub_0_2C8F+B3^j
                                    loc 0 2D51:
                                                                       ld
                                                                                        hl, (unk_0_62A8)
2D54
2D54
2D54 7E
2D55 DD 2A AA 62
2D59 ED 5B AC 62
2D5D FE 7F
                                    loc_0_2D54:
                                                                                        a, (h1)
ix, (unk_0_62AA)
de, (unk_0_62AC)
#0x7F; ' '
                                                                                                                                                                              ; CODE XREF: sub_0_2C8F+FA j
                                                                       ld
ld
ld
                                                                       cp
jp
ld
2D5D FE 7F
2D5F CA 8C 2D
2D62 4F
2D63 B6 7F
2D65 12
2D66 DD 7E 07
2D69 CB 79
2D68 CA 70 2D
2D62 CB 2D64 CB 2D65
2D70 13
                                                                                         Z, loc_0_2D8C
                                                                                         c, a
#0x7F ; ' '
                                                                        and
                                                                                        (de), a
a, 7(ix)
7, c
                                                                                                                                                                              ; sprite data X coord
; sprite tile #
                                                                        14
                                                                        ld
                                                                        bit
                                                                        jр
                                                                                         Z, loc_0_2D70
                                                                                                                                                                              ; CODE XREF: sub_0_2C8F+DC|j
                                    loc_0_2D70:
2D70 13
2D71 12
2D72 DD 77 07
2D75 DD 7E 08
                                                                       ld
ld
ld
                                                                                        (de), a
7(ix), a
a, 8(ix)
de
                                                                                                                                                                              ; sprite tile # (barrel)
; sprite tile #
2D75 DD
2D78 13
2D79 12
2D7A 23
2D7B 7E
2D7C 13
2D7D 12
2D7E 23
                                                                        inc
                                                                                        (de), a hl a, (hl)
                                                                        inc
                                                                        1d
                                                                        ld
                                                                                           (de), a
                                                                        inc
ld
 2D7F 22 A8 62
2D82 C9
2D83
                                                                                         (unk_0_62A8), hl
 2D83
2D83
                                    loc_0_2D83:
                                                                                                                                                                              ; CODE XREF: sub_0_2C8F+BF|j
 2D83 21 CC 39
2D86 22 A8 62
2D89 C3 54 2D
                                                                                        hl, #barrel_falling_data
(unk_0_62A8), hl
loc_0_2D54
                                                                        ld
                                                                        jр
2D8C
2D8C
2D8C
2D8C
2D8C
2D8C 21 C3 39
                                    loc_0_2D8C:
                                                                                                                                                                               ; CODE XREF: sub_0_2C8F+D0 ij
                                                                                        hl, #barell_rolling_data
                                                                        ld
2D8C 21 C3 39
2D8F 22 A8 62
2D92 DD 36 01 01
2D96 3A 82 63
2D99 0F
2D9A DA A5 2D
2D9D DD 36 01 00
2DA1 DD 36 02 02
2DA5
                                                                       ld
ld
ld
                                                                                        (unk_0_62A8), hl
1(ix), #1
a, (unk_0_6382)
                                                                        rrca
                                                                                        C, loc_0_2DA5
1(ix), #0
2(ix), #2
                                                                        ld
 2DA5
 2DA5
2DA5 DD 36 00 01
2DA9 DD 36 0F 01
2DAD AF
                                    loc_0_2DA5:
                                                                                                                                                                              ; CODE XREF: sub_0_2C8F+10Bfj
                                                                                        0(ix), #1
0xF(ix), #1
                                                                        ld
                                                                        xor
ld
ld
2DAD AF
2DAE DD 77 10
2DB1 DD 77 11
2DB4 DD 77 12
2DB4 DD 77 13
2DBA DD 77 14
2DBD 32 93 63
2DC0 32 92 63
2DC3 1A
                                                                                        a 0x10(ix), a 0x11(ix), a 0x12(ix), a 0x12(ix), a 0x13(ix), a 0x14(ix), a 0x14(ix), a (barrel_deployment), a
                                                                        ld
                                                                       ld
ld
ld
                                                                                         (unk_0_6392),
                                                                        1d
```

```
2DC4 DD 77 03
                                                                                                                                 3(ix), a
                                                                                                        ld
 2DC7
                                                                                                        inc
                                                                                                                                 de
2DC8
2DC9
2DCA
                                                                                                       inc
inc
ld
                                                                                                                                 de
de
                                                                                                                               de a, (de) 5(ix), a hl, #kong_normal_spr copy_sprites_2_l1_data hl, #soft_sprite_ram+0xB c, #0xFC; '3'
                                                                                                                                          (de)
2DCA 1A
2DCB DD 77 05
2DCE 21 5C 38
2DD1 CD 4E 00
2DD4 21 0B 69
2DD7 0E FC
2DDA C9
2DDA 2DDA
                                                                                                        ld
                                                                                                        ld
                                                                                                        call
ld
                                                                                                                                                                                                                                                               ; sprite #2, x coord
                                                                                                        ld
                                                                                                                                                                                                                                                               ; subtract 4 from x coord for 10 sprites
                                                                                                        rst
                                                                                                        ret
                                                     ; End of function sub_0_2C8F
2DDA
2DDB
2DDB
2DDB
                                                                                                 S U B R O U T I N E
2DDB 2DDB 3E 0A 2DDB 7 0A 2DDB 7 0A 2DDB 7 0A 2DDB 7 0A 2DB 7 0A 2
                                                                                                                                                                                                                                                              ; CODE XREF: 0000:1995 p
                                                      sub_0_2DDB:
                                                                                                                                a, #0xA
0x30
                                                                                                        ld
                                                                                                                                                                                                                                                             ; return if level bit not set
; return if mario not allive
                                                                                                        rst
                                                                                                        rst
ld
                                                                                                                                 0x10
                                                                                                                                a, (unk_0_6380)
                                                                                                        inc
and
                                                                                                                                 a
a
                                                                                                        rra
ld
                                                                                                                                b, a
a, (level_type)
#2
                                                                                                        ld
                                                                                                        cp
jr
inc
                                                                                                                                 NZ, loc_0_2DEE
2DEE
2DEE 3E FE
2DF0 37
2DF1
                                                     loc_0_2DEE:
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2DDB+10 | j
                                                                                                        ld
                                                                                                                                a, #0xFE ; '='
                                                                                                       scf
2DF1
2DF1
2DF1 1F
2DF2 A7
2DF3 10
                                                    loc_0_2DF1:
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2DDB+18|j
2DF2 A7
2DF3 10 FC
2DF5 47
2DF6 3A 1A 60
2DF9 A0
2DFA C0
2DFB 3E 01
2DFD 32 A0 63
2E00 32 9A 63
2E03 C9
2E03
2E04
2E04
2E04
2E04
2E04
                                                                                                        and
                                                                                                                                 loc 0 2DF1
                                                                                                       dinz
                                                                                                                                b, a
a, (gen_purpose_timer)
b
                                                                                                       ld
ld
                                                                                                        and
                                                                                                        ret
                                                                                                                                 NZ
                                                                                                                                a, #1 (unk_0_63A0), a
                                                                                                        ld
ld
                                                                                                        ld
                                                                                                                                 (unk_0_639A), a
                                                                                                        ret
                                                      ; End of function sub_0_2DDB
                                                                    SUBROUTINE
2E04
2E04 3E 04
2E06 F7
2E07 D7
                                                                                                                                                                                                                                                             ; CODE XREF: 0000:198F1p
                                                     sub 0 2E04:
                                                                                                                                a, #4
0x30
0x10
                                                                                                       14
                                                                                                                                                                                                                                                              ; return if level bit not set
; return if mario not alive
                                                                                                        rst
                                                                                                        rst
2E08 DD 21 00 65
2E0C FD 21 80 69
2E10 06 0A
2E12
                                                                                                       ld
ld
ld
                                                                                                                                ix, #unk_0_6500
iy, #soft_sprite_ram+0x80
b, #0xA
2E12 2E12 DD 7E 00 2E15 OF 2E16 D2 A7 2E 2E19 3A 1A 60 2E1C E6 0F 2E 2E1 FD 7E 01 2E24 EE 07 2E26 FD 77 01 2E29
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2E04+7D|j
; any active springs?
                                                     loc_0_2E12:
                                                                                                       ld
rrca
                                                                                                                                a, 0(ix)
                                                                                                                               NC, 10c_0_2EA7
a, (gen_purpose_timer)
#0xF
NZ, 10c_0_2E29
a, 1(iy)
#7
                                                                                                        jp
ld
and
                                                                                                                                                                                                                                                              ; no, skip
                                                                                                        jp
ld
                                                                                                                                                                                                                                                             ; animate spring sprites
                                                                                                                                 1(iy), a
2E29 2E29 DD 7E 0D 2E2C FE 04 2E2E CA 84 2E
                                                     loc_0_2E29:
                                                                                                                                                                                                                                                             ; CODE XREF: sub 0 2E04+1A j
                                                                                                                                a, 0xD(ix)
#4
Z, loc_0_2E84
                                                                                                        ld
                                                                                                        ср
                                                                                                        jp
inc
inc
ld
2E31 DD 34 03
2E34 DD 34 03
2E37 DD 6E 0E
2E3A DD 66 0F
                                                                                                                                3(ix)
3(ix)
1, 0xE(ix)
h, 0xF(ix)
2E3A DD 66 0F
2E3D 7E
2E3E 4F
2E3F FE 7F
2E41 CA 9C 2E
2E44 23
2E45 DD 86 05
2E48 DD 77 05
2E4B
                                                                                                        ld
                                                                                                        ld
ld
                                                                                                                                 a, (hl)
                                                                                                                                 c, a
#0x7F ; '
                                                                                                       cp
jp
inc
add
                                                                                                                                Z, loc_0_2E9C
                                                                                                                                a, 5(ix)
5(ix), a
                                                                                                       ld
2E4B
2E4B
2E4B
DD 75 0E
2E4E DD 74 0F
2E51 DD 7E 03
2E54 FE B7
2E56 DA 6C 2E
2E59 79
                                                     loc_0_2E4B:
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2E04+A0|j
                                                                                                                                0xE(ix), 1
0xF(ix), h
a, 3(ix)
#0xB7; 'A
                                                                                                        ld
                                                                                                        1d
                                                                                                        ср
                                                                                                                                 C, loc_0_2E6C
                                                                                                        jp
ld
2E5A FE 7F
2E5C C2 6C 2E
2E5F DD 36 0D 04
                                                                                                        cp
jp
ld
                                                                                                                                 #0x7F ; '
                                                                                                                                 NZ, loc_0_2E6C
0xD(ix), #4
2E63 AF
2E64 32 83 60
2E67 3E 03
2E69 32 84 60
                                                                                                        xor
                                                                                                                                                                                                                                                             ; stop timer
                                                                                                        1d
                                                                                                                                 (digital_snd_tmr_coin_spring), a
                                                                                                                                 a, #3
(digital_snd_tmr_kong_fall), a
                                                                                                        ld
 2E6C
2E6C
2E6C DD 7E 03
                                                                                                                                                                                                                                                              ; CODE XREF: sub_0_2E04+52<sup>†</sup>j; sub_0_2E04+58<sup>†</sup>j ...
                                                     loc_0_2E6C:
                                                                                                                                a, 3(ix)
0(iy), a
a, 5(ix)
3(iy), a
                                                                                                                                          3(ix)
 2E6C
                                                                                                        ld
2E6C
2E6F FD 77 00
2E72 DD 7E 05
2E75 FD 77 03
                                                                                                        ld
                                                                                                                                                                                                                                                              ; x corrd to sprite data
                                                                                                                                                                                                                                                               ; y coord to sprite data
 2E78
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2E04+A7|;
; sub_0_2E04+CD|;
; 16 bytes/sprite
; next spring data
 2E78
2E78 11 10 00
2E78
                                                      loc_0_2E78:
                                                                                                                                 de, #0x10
                                                                                                        ld
 2E7B DD 19
                                                                                                                                 ix, de
e, #4
                                                                                                        add
1d
 2E7D 1E 04
```

```
2E7F FD 19
                                                                                                                                                                                                                                                                                                     ; next sprite data
                                                                                                                                                     iy, de loc_0_2E12
 2E81 10 8F
2E83 C9
2E84
2E84
                                                                                                                         dinz
; CODE XREF: sub 0 2E04+2A1 j
                                                              loc_0_2E84:
                                                                                                                                                     a, #3
a, 5(ix)
5(ix), a
#0xF8;
                                                                                                                         14
                                                                                                                        add
ld
                                                                                                                         cp
jp
ld
                                                                                                                                                     C, loc_0_2E6C
3(ix), #0
0(ix), #0
                                                                                                                         ld
                                                                                                                         jp
                                                                                                                                                     loc 0 2E6C
                                                                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_2E04+3D1j
                                                              loc 0 2E9C:
 2E9C 21 AA 39
2E9F 3E 03
2EA1 32 83 60
                                                                                                                         1d
                                                                                                                                                     hl, #bouncing_spring_data
a #3
                                                                                                                         ld
ld
                                                                                                                                                      a, #3
(digital_snd_tmr_coin_spring), a
ZEAH 32 83 60
ZEAH C3 4B ZE
ZEAT
ZEAT
ZEAT
ZEAT
ZEAT 3A 96 63
ZEAA OF
ZEAB D2 78 ZE
ZEAF 22 96 63
ZEBE DD 36 05 50
ZEB6 DD 36 05 50
ZEB6 DD 57 00
ZEBB CE 0F 8
ZEC1 DD 77 03
ZEC4 DD 36 00 01
ZEC8 ZD 36 00 01
ZEC8 ZD 43 39
ZEC8 DD 75 0E
ZECE DD 76 0F
ZECE DD 77 07
ZECH 107 07
  2EA4 C3 4B 2E
                                                                                                                         jр
                                                                                                                                                      loc 0 2E4B
                                                                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_2E04+12 j
                                                             loc 0 2EA7:
                                                                                                                         ld
                                                                                                                                                    a, (unk_0_6396)
                                                                                                                        rrca
jp
                                                                                                                                                     NC, loc_0_2E78
                                                                                                                         xor
                                                                                                                                                      (unk_0_6396), a
5(ix), #0x50; 'P'
                                                                                                                         ld
                                                                                                                        ld
ld
call
                                                                                                                                                     (unk_0_6396)
5(ix), #0x50
0xD(ix), #1
rand
                                                                                                                         and
add
ld
ld
                                                                                                                                                    #0xF
a, #0xF8; '°'
3(ix), a
0(ix), #1
                                                                                                                                                    hl, #bouncing_spring_data

0xE(ix), 1

0xF(ix), h
                                                                                                                         ld
                                                                                                                         ld
ld
jp loc_
; End of function sub_0_2E04
                                                                                                                                                     loc 0 2E78
                                                                                                                                                                                                                                                                                                     ; end of spring routine
                                                                                                                    SUBROUTINE
                                                              sub 0 2ED4:
                                                                                                                                                                                                                                                                                                     ; CODE XREF: 0000:1998 p
                                                                                                                                                    a, #0xB
0x30
0x10
                                                                                                                         14
                                                                                                                                                                                                                                                                                                     ; return if level bit not set
; return if mario not alive
; hammers in sprite ram
; hammer character data
                                                                                                                        rst
                                                                                                                                                    de, #soft_sprite_ram+0x118 ix, #unk_0_6680 a, 1(ix)
                                                                                                                         1d
                                                                                                                         ld
ld
ZEEZ OF

2EE3 DA ED 2E

2EE6 11 1C 6A

2EE9 DD 21 90 66

2EED
                                                                                                                         rrca
                                                                                                                                                    C, loc_0_2EED
de, #soft_sprite_ram+0x11C
ix, #unk_0_6690
                                                                                                                         jp
ld
ld
2EED
2EED DD 36 0E 00
2EF1 DD 36 0F F0
2EF5 3A 17 62
2EF8 0F
                                                             loc_0_2EED:
                                                                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_2ED4+Ffj
                                                                                                                        ld
ld
ld
                                                                                                                                                    0xE(ix), #0
0xF(ix), #0xF0; '-'
a, (unk_0_6217)
ZEF8 0F 7 2

ZEF8 0F 7 2

ZEFC AF 2

ZEFC AF 2

ZEFC 32 18 62 2

ZF00 21 89 60 4

ZF05 DD 36 09 06 2

ZF09 DD 36 00 03 2

ZF0D 06 1E 2

ZF0F 3A 07 62 2

ZF12 CB 27 2

ZF14 DZ 1B 2F 2

ZF17 F6 80 2

ZF19 CB F8 2

ZF18 2

ZF
                                                                                                                        rrca
jp
xor
                                                                                                                                                     NC, loc_0_2F97
                                                                                                                                                     a
(unk_0_6218),
                                                                                                                         ld
ld
                                                                                                                                                    (unk_0_6218), a
hl, #unk_0_6089
(hl), #4
9(ix), #6
0xA(ix), #3
b, #0xlE
a, (mario_flipy_sprite_tile)
                                                                                                                         ld
ld
                                                                                                                         ld
                                                                                                                         ld
ld
                                                                                                                         sla
                                                                                                                                                    NC, loc_0_2F1B
#0x80 ; 'Ç'
7, b
                                                                                                                         jp
or
                                                                                                                         set
2F1B 2F1B F6 08 2F1B F6 08 2F1D 4F 2F1E 3A 94 63 2F21 CB 5F 2F23 CA 43 2F 2F26 CB CO 2F28 CB C1 2F2A DD 36 0A 05 2F36 DD 36 0A 05 2F36 DD 36 0A 06 0F 02F36 DD 36 0A 0F0 2F36 CB 79 2F3A CB 79 2F3C CA 43 2F 2F3F DD 36 0E 10 2F43
                                                            loc_0_2F1B:
                                                                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_2ED4+40 j
                                                                                                                         or
ld
                                                                                                                                                    c, a
a, (
3, a
                                                                                                                                                               (unk_0_6394)
                                                                                                                         ld
                                                                                                                        bit
jp
                                                                                                                                                     Z, 10
0, b
                                                                                                                                                                loc_0_2F43
                                                                                                                         set
                                                                                                                         set
                                                                                                                                                     9(ix), #5

0xA(ix), #6

0xF(ix), #0

0xE(ix), #0xF0; '-'
                                                                                                                         ld
ld
                                                                                                                         ld
ld
                                                                                                                         bit
                                                                                                                                                             loc_0_2F43
                                                                                                                        jp
ld
                                                                                                                                                     0xE(ix), #0x10
 2F43
2F43
2F43 79
2F43
                                                                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_2ED4+4F\uparrow j; sub_0_2ED4+68\uparrow j
                                                            loc_0_2F43:
 2F44 32 4D 69
2F47 0E 07
2F49 21 94 63
2F4C 34
                                                                                                                        ld
ld
ld
                                                                                                                                                    (soft_sprite_ram+0x4D), a
c, #7
h1, #unk_0_6394
(h1)
2F4C 34
2F4D C2 B7 2F
2F50 21 95 63
2F53 34
2F54 7E
2F55 FE 02
2F57 C2 BE 2F
2F58 AF
2F5B 32 95 63
2F5E 32 17 62
2F61 DD 77 01
2F64 3A 03 36
                                                                                                                         inc
                                                                                                                                                    NZ, loc_0_2FB7
hl, #unk_0_6395
(hl)
                                                                                                                         jp
ld
                                                                                                                         inc
                                                                                                                                                      a, (hl)
#2
                                                                                                                         ld
                                                                                                                        cp
jp
                                                                                                                                                     NZ, loc_0_2FBE
                                                                                                                         xor
ld
                                                                                                                                                     a
(unk_0_6395), a
                  32 95 63
32 17 62
DD 77 01
3A 03 62
ED 44
DD 77 0E
3A 07 62
32 4D 69
                                                                                                                         ld
ld
                                                                                                                                                     (unk_0_6217), a
1(ix), a
  2F64
                                                                                                                                                     a, (mario_y_coord)
                                                                                                                         ld
                                                                                                                         neg
ld
ld
                                                                                                                                                    0xE(ix), a
a, (mario_flipy_sprite_tile)
(soft_sprite_ram+0x4D), a
0(ix), #0
  2F6F
                                                                                                                         1d
  2F72 DD 36 00 00
```

```
2F76 3A 89 63
2F79 32 89 60
                                                                              a, (unk_0_6389)
(unk_0_6089), a
                                                               ld
2F7C
2F7C EB
2F7C
2F7D 3A 03 62
                                                                                                                                                         ; CODE XREF: sub_0_2ED4+E0|;
; sub_0_2ED4+E7|; ...
                                loc_0_2F7C:
                                                                             de, hl
a, (mario_y_coord)
a, 0xE(ix)
(hl), a
3(ix), a
                                                               ld
                                                                                                                                                         ; calc hammer X
 2F80 DD 86 0E
2F83 77
                                                               add
ld
2F83 77
2F84 DD 77 03
2F87 23
2F88 70
2F89 23
                                                              ld
inc
ld
                                                                              (hl), b
                                                               inc
                                                                              hl
2F8A 71
2F8B 23
2F8C 3A 05 62
2F8F DD 86 0F
                                                              ld
inc
ld
                                                                              (hl), c
                                                                             a, (mario_x_coord)
a, 0xF(ix)
                                                                                                                                                         ; calc hammer Y
                                                               add
2F8F DD 86 OF
2F92 77
2F93 DD 77 O5
2F96 C9
2F97
2F97
2F97 3A 18 62
                                                              ld
ld
                                                                              (hl), a
5(ix), a
                                                               ret
                                 loc_0_2F97:
                                                                                                                                                         ; CODE XREF: sub_0_2ED4+25 j
2F97 3A 18 62 2F9A 0F 2F9B D0 36 09 06 2FAO DD 36 0A 03 2FA4 3A 07 62 2FAA 0F 2FAB 3E 3C 2FAB 47
                                                               ld
                                                                             a, (unk 0 6218)
                                                              rrca
ret
ld
                                                                             NC
9(ix), #6
0xA(ix), #3
                                                               ld
ld
                                                                              a, (mario_flipy_sprite_tile)
                                                              rlca
ld
rra
                                                                              a, #0x3C ; '<'
2FAA 1F

2FAB 47

2FAC 0E 07

2FAE 3A 89 60

2FB1 32 89 63

2FB4 C3 7C 2F

2FB7

2FB7
                                                                             b, a
c, #7
a, (unk_0_6089)
(unk_0_6389), a
                                                              ld
ld
ld
                                                                                                                                                         ; hammer tile #
                                                               ld
                                                                              loc_0_2F7C
2FB7
2FB7 3A 95 63
2FBA A7
2FBB CA 7C 2F
                                                                                                                                                         ; CODE XREF: sub 0 2ED4+791i
                                 loc 0 2FB7:
                                                              ld
and
                                                                             a, (unk_0_6395)
                                                                              a
Z, loc_0_2F7C
                                                               jр
2FBB CA 7C 2F
2FBE
2FBE
2FBE 3A 1A 60
2FC1 CB 5F
2FC3 CA 7C 2F
2FC6 0E 01
2FC8 C3 7C 2F
2FC8 C3 7C 2F
                                 loc_0_2FBE:
                                                                                                                                                         ; CODE XREF: sub_0_2ED4+83 j
                                                               ld
                                                                              a, (gen_purpose_timer)
                                                                             3, a
Z, loc_0_2F7C
                                                              bit
                                                               jp
ld
                                                                              c, #1
loc_0_2F7C
                                                               jр
 2FC8
2FC8
2FCB
2FCB
                                 ; End of function sub_0_2ED4
                                 ; SUBROUTINE
2FCB
2FCB
2FCB
2FCB 3E 0E
                                                                                                                                                         ; CODE XREF: 0000:19BF1p
                                 sub_0_2FCB:
                                                                             a, #0xE
0x30
h1, #unk_0_62B4
(h1)
                                                               ld
2FCB 3E 0E
2FCD F7
2FCE 2I B4 62
2FD1 35
2FD2 CO
2FD3 3E 03
2FD5 32 B9 62
2FD8 32 96 63
2FDB 11 01 05
2FDE CD 9F 30
2FE1 3A 36 22
2FE4 77
2FE5 21 B1 62
2FE8 35
                                                              rst
ld
dec
                                                                                                                                                         ; return if level bit not set
                                                                              NZ
                                                               ret
ld
                                                                              a, #3
(unk_0_62B9), a
(unk_0_6396), a
                                                               ld
ld
                                                                                                                                                         ; update bonus timer
                                                               ld
                                                                              de, #0x501
                                                                             de, #0x501
queue_fg_vector_fn
a, (unk_0_62B3)
(h1), a
h1, #unk_0_62B1
(h1)
NZ
a, #1
(unk_0_6386)
                                                               call
ld
ld
                                                               ld
2FES 21 B1 62
2FE8 35
2FE9 C0
2FEA 3E 01
2FEC 32 86 63
2FEF C9
2FEF
                                                              dec
ret
ld
                                                                              (unk_0_6386), a
                                                               1d
                                ret; End of function sub_0_2FCB
2FEF 2FF0 2FF0 2FF0 7D 2FF1 0F 2FF1 0F 2FF1 0F 2FF1 0F 2FF1 6 F 2FF6 6F 2FF7 7C 2FF8 2F 2FF9 5F 8F
 2FEF
                                                           SUBROUTINE
                                                                                                                                                         ; CODE XREF: sub_0_DA7+10<sup>p</sup>;
; sub_0_DA7+3D<sup>p</sup> ...
                                 sub_0_2FF0:
                                                                                                                                                         ; sub_o_
; byte2
                                                               ld
                                                                             a, 1
                                                               rrca
                                                              rrca
                                                                                                                                                          ; byte2/8
                                                                             #31
1, a
a, h
                                                               and
ld
                                                                                                                                                         ; L=byte2/8
; byte1
                                                              ld
cpl
                                                                              #0xF8
                                                               and
2FFB 5F
2FFC AF
2FFD 67
2FFE CB 13
                                                               1d
                                                                              e, a
                                                               xor
ld
                                                                              h, a
                                                               rl
 3000 17
3001 CB 13
3003 17
3004 C6 74
                                                              rla
rl
rla
                                                               add
                                                                              a. #0x74 ; 't'
                                                                                                                                                         ; start of video RAM
 3004 C0
3006 57
3007 19
3008 C9
                                                                             d, a
hl, de
                                                               ld
                                                                                                                                                         ; HL = screen address
                                                               ret
                                 ; End of function sub_0_2FF0
 3008
 3008
3009
3009
3009
                                 ; SUBROUTINE
 3009
3009
3009
57
                                                                                                                                                         ; CODE XREF: 0000:18DF\p; sub_0_1AC3+1DB\p ...
                                 sub_0_3009:
 3009
300A OF
300B DA 22 30
                                                              ld
rrca
                                                                              d, a
                                                                              C, loc_0_3022
                                                               jp
ld
 300E 0E 93
3010 0F
                                                                              c, #0x93; 'ô
                                                               rrca
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
                                                                                                     rrca
3011 0F
3012 D2 17 30
3015 0E 6C
3017
3017
3017 07
                                                                                                                             NC, loc_0_3017 c, #0x6C; '1'
                                                                                                    jp
ld
                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_3009+9↑j
                                                     loc_0_3017:
                                                                                                     rlca
3017 07
3018 DA 31 30
301B 79
301C E6 F0
301E 4F
301F C3 31 30
3022
3022
                                                                                                    jp
ld
and
ld
                                                                                                                             C, loc_0_3031
                                                                                                                              a, c
#0xF0 ; '-'
                                                                                                                             loc_0_3031
 3022
3022 0E B4
3024 0F
3025 0F
                                                    loc_0_3022:
                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_3009+21j
                                                                                                     ld
                                                                                                                             c, #0xB4 ; '-
                                                                                                     rrca
                                                                                                     rrca
 3025 OF
3026 D2 2B 30
3029 OE 1E
302B
                                                                                                                             NC, loc_0_302B c, #0x1E
 302B
                                                    loc_0_302B:
                                                                                                                                                                                                                                                       ; CODE XREF: sub 0 3009+1D1i
302B CB 50
302D CA 31 30
3030 05
3031
3031
3031
79
3031
3032 0F
3032 0F
3033 0F
3035 E6 03
3037 B8
3038 C2 31 30
303B 79
303C 0F
303B E6 03
303D 0F
303E E6 03
304D 0F
                                                                                                                             2, b
Z, loc_0_3031
                                                                                                    bit
                                                                                                    jp
dec
                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_3009+F<sup>†</sup>j
; sub_0_3009+16<sup>†</sup>j ...
                                                    loc_0_3031:
                                                                                                    ld
                                                                                                                             a, c
                                                                                                     rrca
                                                                                                    rrca
ld
and
                                                                                                                             c, a
#3
                                                                                                     cp
jp
ld
                                                                                                                             NZ, loc_0_3031
                                                                                                                             a, c
                                                                                                     rrca
                                                                                                    rrca
and
                                                                                                     ср
                                                                                                     ret
                                                                                                                             NZ
                                                                                                                             2, d
d
                                                                                                     ret
                                                                                                                             NZ
                                                                                                     ld
                                                                                                                             a, #4
                                                    ret; End of function sub_0_3009
                                                                                                 SUBROUTINE
                                                    sub_0_304A:
                                                                                                                                                                                                                                                            CODE XREF: 0000:0AF0↑p
304A 11 E0 FF
304A 3A 8E 63
3050 4F
3051 06 00
3053 21 00 76
3056 CD 64 30
3059 21 C0 75
305C CD 64 30
3059 21 8E 63
3062 35
3063 3064
3064 3064
3064 3064
3064 09
3064 09
3066 19
3067 77
3068 C9
3068 C9
                                                                                                                             de, #0xFFE0
                                                                                                     ld
                                                                                                    ld
ld
ld
                                                                                                                             a, (unk_0_638E)
                                                                                                                             b, #0
hl, #VRAM_start+0x200
                                                                                                     ld
                                                                                                    call
ld
call
ld
                                                                                                                             sub_0_3064
hl, #VRAM_start+0x1C0
sub_0_3064
                                                                                                                             hl, #unk_0_638E
(hl)
                                                                                                     dec
                                                    ret
; End of function sub_0_304A
                                                                                                 SUBROUTINE
                                                                                                                                                                                                                                                        ; CODE XREF: sub_0_304A+C^p; sub_0_304A+12^p
                                                    sub_0_3064:
                                                                                                                            hl, bc
a, (hl)
hl, de
                                                                                                     add
                                                                                                     1d
                                                                                                     add
                                                                                                     ld
                                                                                                                              (hl), a
                                                                                                     ret
3068 C9
3068
3069
3069
3069
3069 DF
3069
                                                    ; End of function sub_0_3064
                                                    loc_0_3069:
                                                                                                                                                                                                                                                        ; DATA XREF: 0000:0A80 o
                                                                                                                                                                                                                                                        ; 0000:0A84\rangle ...
; wait for 8-bit countdown
                                                                                                                             0x18
                                                                                                     rst
 306A 2A CO 63
                                                                                                                             hl, (unk_0_63C0)
(hl)
                                                                                                     ld
 306D 34
306E C9
306F
306F
                                                                                                    SUBROUTINE
 306F
306F
306F
sub_0_306F:
                                                                                                                                                                                                                                                        ; CODE XREF: 0000:0AE8†p
                                                                                                                                                                                                                                                        ; 0000:1732↑p ...
                                                                                                                             hl, #unk_0_62AF (hl)
                                                                                                     ld
                                                                                                     inc
ld
                                                                                                                            a, (hl)
#7
                                                                                                     and
ret
ld
                                                                                                                             NZ
hl, #soft_sprite_ram+0xB
                                                                                                                                                                                                                                                      ; sprite #2, x coord
                                                                                                     ld
                                                                                                                             c, #0xFC;
0x38
                                                                                                    rst
ld
ld
                                                                                                                             0x38
c, #0x81 ; 'ü'
hl, #soft_sprite_ram+9
                                                                                                                                                                                                                                                      ; sprite #2, flipy & code
                                                                                                     call
                                                                                                                             sub_0_3096
                                                                                                    ld
call
                                                                                                                             hl, #soft_sprite_ram+0x1D
sub_0_3096
                                                                                                     call
                                                                                                                             rand #0x80 ; 'Ç'
                                                                                                     ld
                                                                                                                             hl, #soft_sprite_ram+0x2D (hl)
```

xor

1d

ret; End of function sub_0_306F

3095 C9 3095 3095

3096

3096

(hl), a

SUBROUTINE

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
  3096
  3096
3096
3096 06 02
3096
                                                                                                                                         ; CODE XREF: sub_0_306F+13^p; sub_0_306F+19^p
                             sub_0_3096:
                                                         ld
                                                                      b, #2
  3098
3098
3098 79
3099 AE
                             loc_0_3098:
                                                                                                                                         ; CODE XREF: sub_0_3096+6|j
                                                         ld
                                                                      a, c
                                                         xor
  309A
         77
19
10 FA
                                                         ld
                                                                      (hl), a
  309B 19
309C 10
309E C9
                                                                      hl, de
loc_0_3098
                                                         add
                                                         djnz
                                                         ret
 309E C9
309E
309F
309F
309F
309F
309F
309F
                              ; End of function sub_0_3096
                                    SUBROUTINE
                                                                                                                                         ; CODE XREF: sub_0_17B+3B<sup>†</sup>p; 0000:01F7<sup>†</sup>p ...
                             queue_fg_vector_fn:
 309F E5
30A0 21 C0 60
30A3 3A B0 60
30A6 6F 30A7 CB 7E
30A9 CA BB 30
30AC 72
30AD 2C
30AE 73
30AF 2C
30BO 7D
30BI FE CO
                                                         push
ld
ld
                                                                     hl
hl,
                                                                            #fg_vector_fn_params
                                                                     a, (fg_fn_queue_tail)
l, a
                                                                                                                                         ; point to end of queue
; empty entry?
; no, exit
                                                         ld
                                                        bit
jp
ld
inc
                                                                           (h1)
loc_0_30BB
                                                                      (hl), d
                                                                                                                                         ; vector number
                                                         ld
                                                                      (hl), e
                                                                                                                                         ; msg number
                                                         inc
ld
                                                                      a, 1
                                                                                                                                         ; new tail
  30B1 FE C0
30B3 D2 B8 30
30B6 3E C0
30B8
                                                                      #0xC0 ; L
                                                         cp
jp
ld
                                                                                                                                         ; wrap?
; no, skip
                                                                     NC, loc_0_30B8
a, #0xC0; 'L'
  30B8
30B8 32 B0 60
30BB
                                                                                                                                        ; CODE XREF: queue_fg_vector_fn+14\frac{1}{2}
; store tail
                              loc_0_30B8:
                                                         ld
                                                                      (fg_fn_queue_tail), a
 30BB
30BB E1
30BC C9
30BC
30BC
30BD
30BD
                                                                                                                                         ; CODE XREF: queue_fg_vector_fn+A| j
                             loc 0 30BB:
                                                        pop
ret
                                                                     h1
                              ; End of function queue fg vector fn
                                                       SUBROUTINE
  30BD
30BD
30BD
30BD 21 50 69
                              sub_0_30BD:
                                                                                                                                         ; CODE XREF: 0000:12A3\p; 0000:1615\p
30BD 2-
30BD
30C0 06 02
30C2 CD E4 30
30C5 2E 80
30C7 06 0A
                                                         ld
                                                                     hl, #soft_sprite_ram+0x50
                                                        ld
call
ld
                                                                     sub_0_30E4
1, #0x80;
b, #0xA
                                                         ld
  30C9 CD E4 30
30CC 2E B8
30CE 06 0B
                                                                     sub_0_30E4
1, #0xB8;
b, #0xB
                                                         call
ld
                                                         ld
  30D0 CD E4 30
30D3 21 OC 6A
30D6 06 05
30D8 C3 E4 30
                                                         call
ld
ld
                                                                      sub_0_30E4
hl, #soft_sprite_ram+0x10C
b, #5
                                                                      sub_0_30E4
                                                         jр
  30D8
                              ; End of function sub 0 30BD
  30D8
30D8
30DB
30DB
30DB
30DB
                                                       SUBROUTINE
                              sub_0_30DB:
                                                                                                                                        ; CODE XREF: 0000:12DF1p
  30DB
30DB 21 4C 69
30DE 36 00
30E0 2E 58
30E2 06 06
                                                         ld
                                                                      hl, #soft_sprite_ram+0x4C
                                                                      (h1), #0
1, #0x58; 'X'
b, #6
                                                        ld
ld
                                                         ld
 30E2 06
30E2
30E2
30E4
30E4
30E4
30E4
30E4
30E4
7D
30E4
30E5
30E5
                              ; End of function sub_0_30DB
                                     SUBROUTINE ...
                                                                                                                                         ; CODE XREF: sub_0_30BD+5\pi
; sub_0_30BD+C\pi ...
                              sub_0_30E4:
                                                        ld
                                                                      a, 1
                             loc_0_30E5:
                                                                                                                                         ; CODE XREF: sub_0_30E4+6|j
 30E5 36 00 30E7 C6 04 30E9 6F 30EA 10 F9 30EC C9 30EC 30ED 30ED
                                                                      (hl), #0
a, #4
l, a
                                                         ld
                                                        add
ld
                                                                      loc 0 30E5
                                                        djnz
                              ret; End of function sub_0_30E4
  30ED
30ED
30ED
30ED
                                                       SUBROUTINE
                              sub 0 30ED:
                                                                                                                                         ; CODE XREF: 0000:198C1p
 30ED CD FA 30
30ED CD FA 30
30F0 CD 3C 31
30F3 CD B1 31
30F6 CD F3 34
30F9 C9
30F9
30F9
                                                                      sub_0_30FA
sub_0_313C
sub_0_31B1
                                                         call
                                                        call
                                                                                                                                         ; spawn fireballs?
; process fireball AI?
; add fireballs to sprite display
                                                         call
                                                                      sub 0 34F3
                              ret
; End of function sub_0_30ED
 30F9
30FA
30FA
30FA
30FA
30FA
30FD FE 06
30FF 38 02
3101 3E 05
3103
3103
3103
3103 EF
```

SUBROUTINE

 0×28

ld

ср Ĭd

rst

a, (unk_0_6380) #6

C, loc_0_3103 a, #5

; CODE XREF: sub 0 30EDîp

; CODE XREF: sub_0_30FA+51j

; go!

sub 0 30FA:

loc_0_3103:

3103 EF

3103

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
 3104 10 31
                                                                                                                .dw loc_0_3110
                                                                                                                                                                                                                                                                                 ; Jump table
3106 10 31
3108 1B 31
3108 26 31
3100 26 31
3100 31
3110 3110
3110 3110 3110
3110 3115 FE 01
3117 C8
3118 33
3119 33
3118 C9
3118 31 1A 60
3118 B 31 1A 60
3118 B 31 1B 
                                                                                                                .dw loc_0_3110
.dw loc_0_311B
.dw loc_0_3126
.dw loc_0_3126
                                                                                                                 .dw loc 0 3131
                                                          loc_0_3110:
                                                                                                                                                                                                                                                                                 ; DATA XREF: sub_0_30FA+A↑o
                                                                                                                                                                                                                                                                                 ; sub_0_30FA+C1o
                                                                                                               ld
and
                                                                                                                                                   (gen_purpose_timer)
                                                                                                                                         #1
#1
                                                                                                                ср
                                                                                                                ret
inc
                                                                                                                                           sp
                                                                                                                                          sp
                                                                                                                ret
                                                          loc_0_311B:
                                                                                                                                                                                                                                                                                ; DATA XREF: sub_0_30FA+E1o
                                                                                                                ld
                                                                                                                                                    (gen_purpose_timer)
                                                                                                               and
cp
ret
                                                                                                                                         #5
M
                                                                                                               inc
inc
ret
                                                                                                                                          sp
sp
                                                                                                                                                                                                                                                                                 ; DATA XREF: sub_0_30FA+10\uparrowo ; sub_0_30FA+12\uparrowo
                                                          loc_0_3126:
ld
                                                                                                                                                   (gen_purpose_timer)
                                                                                                               and
cp
ret
                                                                                                                                         #3
#3
M
                                                                                                                inc
                                                                                                                                          sp
                                                         loc_0_3131:
                                                                                                                                                                                                                                                                               ; DATA XREF: sub_0_30FA+14\u00e10
                                                                                                                                         a, (gen_purpose_timer)
#7
                                                                                                                ld
                                                                                                                and
                                                                                                                cp
ret
inc
                                                                                                                                           #7
                                                                                                                                          M
sp
                                                                                                                inc
                                                                                                                                          sp
                                                                                                                ret
                                                          ; End of function sub_0_30FA
                                                                                       SUBROUTINE
313C

313C DD 21 00 64

3140 AF

3141 32 A1 63

3144 06 05

3146 11 20 00

3149

3149 DD 7E 00
                                                                                                                                                                                                                                                                                 ; CODE XREF: sub_0_30ED+3\(^{\text{p}}\)
; fireball character data
                                                         sub_0_313C:
                                                                                                                ld
                                                                                                                                          ix, #unk_0_6400
                                                                                                                xor
ld
                                                                                                                                           a (unk_0_63A1), a
                                                                                                                1d
                                                                                                                                          b, #5
de, #0x20 ; ' '
                                                                                                                                                                                                                                                                                ; CODE XREF: sub_0_313C+30|j
                                                         loc 0 3149:
                                                                                                                                         a, 0(ix)
#0
Z, loc_0_317C
3149 DD 7E 00
314C FE 00
314C CA 7C 31
3151 3A A1 63
3154 3C 3155 3C A1 63
3158 3E 01
315A DD 77 08
315D 3A 17 62
3160 FE 01
3162 C2 6A 31
3165 3E 00
3167 DD 77 08
316A
316A
316A
                                                                                                                ld
                                                                                                                ср
                                                                                                                jp
ld
inc
                                                                                                                                         a, (unk_0_63A1)
                                                                                                               ld
ld
ld
                                                                                                                                            (unk_0_63A1), a
                                                                                                                                          a, #1
8(ix), a
                                                                                                                                          a, (unk_0_6217)
#1
                                                                                                               ld
cp
                                                                                                                                          NZ, loc_0_316A
                                                                                                                jp
ld
                                                                                                                                         a, #0
8(ix), a
                                                                                                                                                                                                                                                                                ; CODE XREF: sub_0_313C+26<sup>†</sup>j; sub_0_313C+45<sup>†</sup>j ...
                                                         loc 0 316A:
316A DD 19
316A
316C 10 DB
316E 21 A0
                                                                                                               add
djnz
                                                                                                                                         ix, de
loc_0_3149
hl, #unk_0_63A0
(hl), #0
 316E 21 A0 63
3171 36 00
3173 3A A1 63
3176 FE 00
                                                                                                                ld
                                                                                                               ld
ld
                                                                                                                                                    (unk_0_63A1)
                                                                                                                cp
ret
3176 FE
3178 C0
3179 33
317A 33
317B C9
317C
317C
317C
317C 3A
                                                                                                                                          NZ
                                                                                                                                          sp
sp
                                                                                                                ret
                                                         loc_0_317C:
                                                                                                                                                                                                                                                                                 ; CODE XREF: sub_0_313C+12<sup>†</sup>j
                3A A1 63
                                                                                                                                          a, (unk_0_63A1)
                                                                                                                ld
317F FE 05
3181 CA 6A 31
3184 3A 27 62
3187 FE 02
3189 C2 95 31
318C 3A A1 63
318F 4F
                                                                                                                                         a, #5
Z, loc_0_316A
a, (level_type)
                                                                                                                cp
jp
ld
                                                                                                               cp
jp
ld
ld
                                                                                                                                                                                                                                                                                 ; cement level?
                                                                                                                                         NZ, loc_0_3195
a, (unk_0_63A1)
                                                                                                                                                                                                                                                                                 ; no, continue
; cement level timers
318F 4F
3190 3A 80 63
3193 B9
3194 C8
3195
3195 3A A0 63
3198 FE 01
                                                                                                                                         a, (unk_0_6380)
                                                                                                                ld
                                                                                                                                                                                                                                                                                 ; CODE XREF: sub_0_313C+4Dfj
                                                         loc_0_3195:
3195 3A AO 63 3198 FE 01 319A C2 6A 31 319D DD 77 01 31AO DD 77 18 31AA 3AF 31AA 3C AO 63 31AA 3C 31AB 32 AI 63 31AB 32 AI 63 31AB 32 AI 63 31AB C3 6A 31
                                                                                                                                         a, (unk_0_63A0)
#1
                                                                                                               ld
cp
                                                                                                                                                                                                                                                                                 ; spawn a fireball
                                                                                                                                          NZ, loc_0_316A
                                                                                                                jp
ld
                                                                                                                                          0(ix), a
0x18(ix), a
                                                                                                               ld
xor
                                                                                                                                           (unk 0 63A0)
                                                                                                                ld
                                                                                                               ld
inc
                                                                                                                                           a, (unk_0_63A1)
```

(unk_0_63A1), a

jp loc_0_316A
; End of function sub_0_313C

31AE C3 6A 31 31AE

```
31AE
31B1
31B1
31B1
31B1
                           ; SUBROUTINE
                                                                                                                               ; CODE XREF: sub 0 30ED+6 p
                           sub_0_31B1:
31B1
call
                                                                sub_0_31DD
                                                    xor
ld
                                                                 (unk_0_63A2)
                                                                hl, #unk_0_63E0
(unk_0_63C8), hl
                                                    ld
                                                    ld
loc_0_31BE:
                                                                                                                               ; CODE XREF: sub_0_31B1+28|j
                                                                hl, (unk_0_63C8)
bc, #0x20; ''
hl, bc
(unk_0_63C8), hl
                                                    1d
                                                    ld
add
                                                    ld
                                                    ld
and
                                                                a, (hl)
                                                                a
Z, loc_0_31D0
sub_0_3202
                                                    jр
                                                    call
                           loc_0_31D0:
                                                                                                                               ; CODE XREF: sub_0_31B1+19<sup>†</sup>j
                                                    ld
                                                                a, (unk 0 63A2)
                                                    inc
                                                    ld
                                                                 (unk_0_63A2), a
                                                    ср
                                                                NZ, loc_0_31BE
                                                    αĖ
                           ; End of function sub_0_31B1
31DD
31DD
31DD
31DD
                                                  SUBROUTINE
; CODE XREF: sub 0 31B1 p
                           sub 0 31DD:
                                                                a, (unk_0_6380)
#3
                                                    ld
                                                    ср
                                                    ret
                                                    call
                                                                sub 0 31F6
                                                    cp
ret
ld
                                                                hl, #unk_0_6439
                                                                a, #2
(h1), a
h1, #unk_0_6479
a, #2
                                                    ld
                                                    ld
ld
                                                    ld
                                                                a, #2
(hl), a
                                                    14
                                                    ret
                           ; End of function sub_0_31DD
                                                  SUBROUTINE
31F6
31F6
31F6 3A 18 60
31F9 E6 03
                           sub_0_31F6:
                                                                                                                               ; CODE XREF: sub_0_31DD+6 p
                                                                a, (random_no)
#3
                                                    ld
                                                    and
31F9 E6 03
31FB FE 01
31FD C0
31FE 3A 1A
3201 C9
3201
3201
3202
3202
                                                    cp
ret
ld
                                                                NZ
            1A 60
                                                                a, (gen_purpose_timer)
                                                    ret
                           ; End of function sub 0 31F6
3202
3202
3202
3202
3202
                                                  SUBROUTINE
                                                                                                                               ; CODE XREF: sub_0_31B1+1C\p
                           sub_0_3202:
3202 DD 2A C8 63 3206 DD 7E 18 3209 FE 01 3208 CA 7A 32 320E DD 7E 0D 3211 FE 04 3213 F2 30 32 3216 DD 7E 19 3210 FD 7E 19
                                                    ld
                                                                ix, (unk_0_63C8)
                                                                a, (unk_0_
a, 0x18(ix)
#1
                                                    ld
cp
                                                                Z, loc_0_327A
                                                    jp
ld
                                                                     0xD(ix)
                                                    cp
jp
ld
                                                                P, loc_0_3230
a, 0x19(ix)
3216 DD 7E 19
3219 FE 02
3218 CA 7E 32
3212 CD 0F 33
3221 3A 18 60
3224 E6 03
3226 C2 33 32
3229
3229 DD 7E 0D
322C A7
322D A 57 32
                                                    cp
jp
call
                                                                #2
                                                                Z, loc_0_327E
sub_0_330F
                                                                a, (random_no)
#3
                                                    and
                                                    jр
                                                                NZ, loc_0_3233
                                                                                                                               ; CODE XREF: sub 0 3202+7F-i
                           loc 0 3229:
                                                   ld
and
                                                                a, 0xD(ix)
322D CA 57 32
3230
                                                                Z, loc 0 3257
                                                    jр
3230
3230 CD 3D 33
3233
                           loc_0_3230:
                                                                                                                               ; CODE XREF: sub_0_3202+11<sup>†</sup> j
                                                                sub_0_333D
                                                   call
3233
3233 DD 7E 0D
3236 FE 04
3238 F2 91 32
CD AD 33
                           loc_0_3233:
                                                                                                                               ; CODE XREF: sub 0 3202+241 j
                                                                a, 0xD(ix)
#4
P, loc_0_3291
                                                    ld
                                                    ср
                                                    jp
call
call
cp
jp
ld
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 PE F0
                                                                sub_0_33AD
sub_0_298C
                                                                Z, loc_0_3297
                                                                ix, (unk_0_63C8)
a, 0xE(ix)
                                                                 a, 0x
#0x10
                                                    cp
jp
                                                                 C, loc_0_3280
3252 FE F0
3254 D2 84 32
                                                                #0xF0; '-'
NC, loc_0_3284
                                                    cp
jp
3257
3257
3257 DD 7E 13
3257
                                                                                                                               ; CODE XREF: sub_0_3202+2B^{\dagger}j; sub_0_3202+87^{\dagger}j ...
                           loc 0 3257:
                                                    ld
                                                                a, 0x13(ix)
3257
325A FE 00
325C C2 B9 32
325F 3E 11
3261
                                                    ср
                                                                NZ, loc_0_32B9
a, #0x11
                           loc_0_3261:
                                                                                                                               ; CODE XREF: sub 0 3202+B8-1
3261 DD 77 13
                                                   1d
                                                                0x13(ix), a
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
3264 16 00
                                                        ld
                                                                     d, #0
                                                                    a, #U
e, a
hl, #fireball_bouncing_data
hl, de
a, (hl)
b, OxE(ix)
3(ix), b
c, OxF(ix)
3266 5F
3267 21 7A 3A
326A 19
326B 7E
                                                        ld
                                                       ld
add
ld
326B 7E
326C DD 46 0E
326F DD 70 03
3272 DD 4E 0F
3275 81
3276 DD 77 05
                                                       ld
ld
ld
add
                                                                     a, c
5(ix), a
                                                        1d
3279 C9
327A
327A
327A
327A CD BD 32
327D C9
327E
                            loc_0_327A:
                                                                                                                                        ; CODE XREF: sub_0_3202+91j
                                                        call
                                                                     sub_0_32BD
                                                        ret
327E
327E
327E CD D6 32
3281 C3 29 32
                             loc_0_327E:
                                                                                                                                        ; CODE XREF: sub_0_3202+19<sup>†</sup> j
                                                        call
                                                                     sub_0_32D6
loc_0_3229
3281 C3 29
3284
3284
3284
3284 3E 02
3286
3286
                                                                                                                                        ; CODE XREF: sub_0_3202+521j
                            loc 0 3284:
                                                       ld
                                                                     a, #2
                                                                                                                                         ; CODE XREF: sub_0_3202+8C-j
                             loc_0_3286:
3286 DD 77 OD
                                                                     0xD(ix), a
loc_0_3257
                                                        ld
 3289 C3 57 32
                             loc_0_328C:
                                                                                                                                        ; CODE XREF: sub_0_3202+4Dfj
 328C 3E 01
328E C3 86 32
                                                                     a, #1
loc_0_3286
                                                        1d
328E C 3 86 32
3291
3291
3291 CD E7 33
3294 C3 57 32
3297
3297
3297 DD 2A C8 63
3298 DD 7E 0D
329E FE 01
3240 C2 B1 32
32A3 3E 02
32A8 DD 35 0E
32A8
                            loc_0_3291:
                                                                                                                                        ; CODE XREF: sub_0_3202+36 j
                                                                     sub_0_33E7
loc_0_3257
                                                        call
                                                        jр
                                                                                                                                        ; CODE XREF: sub_0_3202+41 j
                             loc_0_3297:
                                                                     ix, (unk_0_63C8)
                                                        ld
                                                                     .., (unk_0
a, 0xD(ix)
#1
                                                        ld
                                                        cp
jp
ld
                                                                     NZ, loc_0_32B1
                                                                     a, #2
0xE(ix)
32A8
32A8
32A8
32A8 DD 77 OD
                             loc_0_32A8:
                                                                                                                                        ; CODE XREF: sub_0_3202+B4|j
                                                        ld
                                                                     0xD(ix)
32AB CD C3 33
32AE C3 57 32
32B1
                                                                     sub_0_33C3
loc_0_3257
                                                        call
                                                        jp
32B1
32B1
32B1 3E 01
32B3 DD 34 0E
                             loc_0_32B1:
                                                                                                                                        ; CODE XREF: sub_0_3202+9E<sup>†</sup>j
                                                                     a, #1
0xE(ix)
                                                        ld
                                                        inc
32B6 C3 A8 32
32B9
32B9
                                                        jp
                                                                     loc_0_32A8
                                                                                                                                        ; CODE XREF: sub_0_3202+5A j
                             loc 0 32B9:
 32B9
32B9 3D
32BA C3 61 32
32BA
                                                       dec
                             jp loc_0_3261 ; End of function sub_0_3202
32BA
32BD
32BD
32BD
                                                        SUBROUTINE
32BD
32BD
32BD
32BD
32BD
32BD 3A 27 62
32C0 FE 01
32C2 CA CE 32
32C5 FE 02
32C7 CA D2 32
32CA CD B9 34
                                                                    a, (level_type)
#1
                             sub_0_32BD:
                                                                                                                                        ; CODE XREF: sub_0_3202+78 p
                                                        ср
                                                                     Z, loc_0_32CE
#2
                                                        jp
cp
jp
                                                                     Z, loc_0_32D2
sub_0_34B9
                                                        call
32CA CD B9 34
32CD C9
32CE
32CE
32CE
32CE CD 2C 34
32D1 C9
32D2
32D2
32D2
                                                                                                                                        ; CODE XREF: sub 0 32BD+51i
                             loc 0 32CE:
                                                        call
                                                                     sub_0_342C
32D2
32D2 CD 78 34
                             loc_0_32D2:
                                                                                                                                        ; CODE XREF: sub_0_32BD+A^jj
                                                        call
 32D5 C9
32D5
                            ret
; End of function sub_0_32BD
                                                    SUBROUTINE
32D6
32D6
32D6
32D6
32D6
32D6 DD 7E 1C
                            sub_0_32D6:
                                                                                                                                        ; CODE XREF: sub_0_3202+7C\p
32D6 DD 7E 1C
32D9 FE 00
32D8 C2 FD 32
32DE DD 7E 1D
32E1 FE 01
32E3 C2 0B 33
32E6 DD 36 1D 00
32EA 3A 05 62
32ED DD 46 0F
32F0 90
32F1 DA 03 33
32F4 DD 36 1C FF
32F8
32F8
                                                        ld
                                                                     a. 0x1C(ix)
                                                        cp
jp
ld
                                                                     NZ, loc_0_32FD
a, 0x1D(ix)
#1
                                                       cp
jp
ld
ld
                                                                    #1
NZ, loc_0_330B
0x1D(ix), #0
a, (mario_x_coord)
b, 0xF(ix)
                                                        ld
                                                       sub
jp
ld
                                                                         loc_0_3303
                                                                     0x1C(ix), #0xFF
 32F8
32F8 DD 36 OD 00
                            loc_0_32F8:
                                                                                                                                        ; CODE XREF: sub_0_32D6+2A|j
                                                        ld
                                                                     0xD(ix), #0
 32FC C9
                                                       ret
 32FD
32FD
32FD
32FD
```

; CODE XREF: sub_0_32D6+5[†]j

loc_0_32FD:

dec

0x1C(ix)

NZ, loc_0_32F8

32FD DD 35 1C

3300 C2 F8 32

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
 3303
 3303
3303 DD 36 19 00
3307 DD 36 1C 00
330B
                                                                                                                                 ; CODE XREF: sub 0 32D6+1B1i
                           loc 0 3303:
                                                                  0x19(ix), #0
0x1C(ix), #0
                                                                                                                                 ; CODE XREF: sub 0 32D6+D17
                           loc_0_330B:
 330B
 330B CD OF 33
330E C9
330E
                                                     call
                                                                  sub_0_330F
                           ret; End of function sub_0_32D6
 330E
 330F
330F
330F
                                                    SUBROUTINE
 330F
330F
330F DD 7E 16
330F
                                                                                                                                 ; CODE XREF: sub_0_3202+1C^p; sub_0_32D6+35^p
                            sub_0_330F:
                                                                  a, 0x16(ix)
#0
330F 3312 FE 00 3314 C2 32 33 3317 DD 36 16 2B 331B DD 36 0D 00 331F 3A 18 60 3322 0F 3323 DD 7E 0D 36 329 FE 01 332B CA 36 33 332E DD 36 0D 01 3332 3332 3332 DD 35 16 3332 C9 3332 C9 3332 C9 3333 C9 3335 C9
                                                     ld
                                                     cp
jp
ld
                                                                  #0
NZ, loc_0_3332
0x16(ix), #0x2B; '+'
0xD(ix), #0
                                                     ld
                                                     ld
rrca
                                                                  a, (random_no)
                                                                  NC, loc_0_3332
a, 0xD(ix)
#1
                                                     jp
ld
                                                     ср
                                                                  Z, loc_0_3336
                                                     jp
ld
                                                                  0xD(ix), #1
                                                                                                                                  ; CODE XREF: sub_0_330F+5<sup>†</sup>j; sub_0_330F+14<sup>†</sup>j ...
                           loc_0_3332:
                                                                  0x16(ix)
3335 C9
3336
3336
3336
                                                     ret
loc_0_3336:
                                                                                                                                 ; CODE XREF: sub_0_330F+1C j
                                                     ld
                                                                  0xD(ix)
                           jp loc_0_3332
; End of function sub_0_330F
                                                   SUBROUTINE
                           sub_0_333D:
                                                                                                                                 ; CODE XREF: sub_0_3202+2E1p
                                                                 a, 0xD(ix)
#8
                                                     ld
                                                     cp
jp
cp
                                                                 #0
Z, loc_0_3371
#4
Z, loc_0 330
                                                                  #4
Z, loc_0_338A
sub_0_33A1
                                                     jp
call
ld
add
ld
ld
call
and
                                                                  a, 0xF(ix)
a, #8
d, a
                                                                      0xE(ix)
                                                                  sub_0_236E
                                                                  Z, loc_0_3399

0x1F(ix), b

a, (mario_x_coord)

b, a
                                                     jp
ld
ld
ld
ld
                                                                 a, 0xF(ix)
b
NC
                                                     sub
ret
336B DO 36 OD 04 3370 C9 3371 3371 3371 3371 DD 7E 0F 3376 DD 46 1F 3379 B8 337A CO 337B DD 36 OD 00 337F DD 7E 19 3882 FE 02
                                                                  0xD(ix), #4
                                                     1d
                           loc_0_3371:
                                                                                                                                 ; CODE XREF: sub_0_333D+5 j
                                                     ld
add
ld
                                                                  a, 0xF(ix)
a, #8
b, 0x1F(ix)
                                                     cp
ret
ld
ld
                                                                  b
NZ
337A CU
337B DD 36 0D 00
337F DD 7E 19
3382 FE 02
3384 CO
3385 DD 36 1D 01
3389 C9
                                                                  0xD(ix), #0
a, 0x19(ix)
#2
                                                     cp
ret
ld
                                                                  0x1D(ix), #1
                                                     ret
 338A
338A
338A
                           loc_0_338A:
                                                                                                                                 ; CODE XREF: sub_0_333D+A^jj
 338A DD 7E 0F
                                                                  a, 0xF(ix)
                                                     ld
 338D C6 08
338F DD 46 1F
3392 B8
3393 C0
                                                     add
ld
                                                                  a, #8
b, 0x1F(ix)
cp
ret
                                                                  b
NZ
                                                     ld
                                                                  0xD(ix), #0
                                                     ret
                           loc_0_3399:
                                                                                                                                 ; CODE XREF: sub_0_333D+20 j
                                                                  0x1F(ix), b
                                                     ld
                                                                  0xD(ix), #8
                           ret; End of function sub_0_333D
                            ; SUBROUTINE
                                                                                                                                 ; CODE XREF: sub_0_333D+D^p
                           sub_0_33A1:
                                                     ld
rst
ld
                                                                  a, #7
0x30
a, 0xF(ix)
#0x59; 'Y
                                                                                                                                  ; return if level bit not set
                                                     cp
ret
                                                     inc
inc
                                                                  sp
                                                                  sp
                           ret; End of function sub_0_33A1
```

SUBROUTINE

33AD

33AD

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
 33AD
33AD
33AD
33AD
33AD
33AD
75 01
33AD
33AD
33BD FE 01
33B2 CA D9 33
33B5 DD 7E 07
33B8 E6 7F
33BA DD 77 07
33BA DD 77 07
33BD DD 35 0E
                                                  sub_0_33AD:
                                                                                                                                                                                                                                             ; CODE XREF: sub_0_3202+391p
                                                                                                                       a, 0xD(ix)
#1
                                                                                                 ср
                                                                                                 jp
ld
and
ld
                                                                                                                        Z, loc_0_33D9
                                                                                                                         a, 7(ix)
#0x7F; ''
7(ix), a
                                                                                                                                                                                                                                             ; reset hflip
; sprite tile #
                                                                                                 dec
                                                                                                                         0xE(ix)
 33C0
33C0 CD 09 34
                                                                                                                                                                                                                                              ; CODE XREF: 0000:33E4|j
                                                   loc_0_33C0:
call
                                                                                                                         sub_0_3409
                                                   ; End of function sub_0_33AD
                                                              SUBROUTINE
                                                   sub_0_33C3:
                                                                                                                                                                                                                                             ; CODE XREF: sub_0_3202+A91p
                                                                                                 ld
                                                                                                                         a, (level_type)
#1
                                                                                                 cp
ret
ld
ld
                                                                                                                       h, 0xE(ix)
1, 0xF(iv)
                                                                                                                        1, 0xF(ix)
b, 0xD(ix)
sub_0_2333
                                                                                                 ld
call
                                                                                                 1d
                                                                                                                         0xF(ix), 1
                                                                                                 ret
                                                   ; End of function sub_0_33C3
; CODE XREF: sub_0_33AD+5\frac{1}{j}
; sprite tile #
; set hflip
                                                   loc_0_33D9:
                                                                                                                       a, 7(ix)
#0x80; 'Ç'
7(ix), a
0xE(ix)
loc_0_33C0
                                                                                                 ld
                                                                                                 or
                                                                                                 ld
                                                                                                 jр
                                                                                                SUBROUTINE
                                                                                                                                                                                                                                             ; CODE XREF: sub_0_3202+8F1p
                                                   sub_0_33E7:
                                                                                                                         sub_0_3409
a, 0xD(ix)
#8
                                                                                                 call
ld
                                                                                                 cp
jp
ld
and
                                                                                                                        NZ, loc 0 3405
                                                                                                 jp
ld
dec
ret
                                                                                                                        NZ, loc_0_3401
                                                                                                                        0x14(ix), #2
0xF(ix)
                                                   loc_0_3401:
                                                                                                                                                                                                                                             ; CODE XREF: sub_0_33E7+F<sup>†</sup> j
                                                                                                                         0x14(ix)
3404 C9
3405 S
3405 S
3405 S
3405 S
3405 DD 34 OF
3408 C9
3408 S
3409 S
3400 S
3400 S
3400 S
3400 S
3400 S
3410 DD 36 D5 O2
3411 DD 7E O7
3417 DD 7E O7
3417 DD 7E O7
3412 FE OF
3412 E OF
3412 FO S
3412 FO S
3428 S
3438 S
3448 S
3488 
                                                                                                 ret
                                                                                                                                                                                                                                             ; CODE XREF: sub_0_33E7+8 j
                                                  loc 0 3405:
                                                                                                 inc
                                                                                                                         0xF(ix)
                                                   ret
; End of function sub_0_33E7
                                                                                                SUBROUTINE
                                                                                                                                                                                                                                              ; CODE XREF: sub_0_33AD+13\uparrow p; sub_0_33E7\uparrow p
                                                   sub_0_3409:
                                                                                                                        a, 0x15(ix)
                                                                                                 ld
                                                                                                 and
                                                                                                 jp
ld
                                                                                                                        NZ, loc_0_3428
                                                                                                                         0x15(ix), #2
7(ix)
                                                                                                                                                                                                                                             ; inc fireball animation
                                                                                                 inc
                                                                                                                        a, 7(ix)
#0xF
                                                                                                 ld
and
                                                                                                                                                                                                                                              ; last animation frame?
                                                                                                 ср
                                                                                                                         #0xF
                                                                                                 ret
                                                                                                                         NZ
                                                                                                                                                                                                                                              ; no, return
                                                                                                                         nz
a, 7(ix)
#2
7(ix), a
                                                                                                 ld
xor
ld
                                                                                                                                                                                                                                              ; reset animation frame
                                                                                                 ret
                                                                                                                                                                                                                                             ; CODE XREF: sub 0 3409+41 j
                                                  loc_0_3428:
                                                                                                                         0x15(ix)
                                                                                                 dec
                                                   ret; End of function sub_0_3409
                                                                                             SUBROUTINE
                                                   sub_0_342C:
                                                                                                                                                                                                                                             ; CODE XREF: sub_0_32BD+111p
                                                                                                 ld
ld
                                                                                                                       1, 0x1A(ix)
h, 0x1B(ix)
                                                                                                                       bc, #0
hl, bc
NZ, loc_0_3442
hl, #fireball_bounce_data
                                                                                                 xor
                                                                                                 ld
ado
                                                                                                 jp
ld
```

ld

inc

ld cp jp ld

loc_0_3442:

loc_0_3445:

3(ix), #0x26;

a, (h1) #0xAA; '¬' Z, loc_0_3456 5(ix), a

3(ix)

; CODE XREF: sub 0 342C+C1 j

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

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
 344F DD 75 1A
3452 DD 74 1B
3455 C9
3456
3456
                                                                                                       0x1A(ix), 1
0x1B(ix), h
                                                                                    ld
                                                                                    ld
3456 AF
3457 DD 77 13
3458 DD 77 18
3450 DD 77 18
3450 DD 77 10
3463 DD 77 05
3460 DD 77 06
3469 DD 76 05
3466 DD 77 06
3469 DD 76 05
3467 DD 36 1A 00
3473 DD 36 1B 00
3477 C9
3477 C9
3478 3478 3478 3478 3478 DD 66 1B
3484 C9 AB
3484 DD 76 DD 34
3484 DD 76 DD 34
349A DD 76 DD
349A
349A DD 77 DD
349A
349A DD 78 DD
340A
                                           loc_0_3456:
                                                                                                                                                                                                           ; CODE XREF: sub 0 342C+1C1j
                                                                                                       a

0x13(ix), a

0x18(ix), a

0xD(ix), a

0x1C(ix), a

a, 3(ix)

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

0xF(ix), a

0x1A(ix), #0

0x1B(ix), #0
                                                                                    ld
                                            ret; End of function sub_0_342C
                                                                                SUBROUTINE
                                           sub_0_3478:
                                                                                                                                                                                                           ; CODE XREF: sub_0_32BD+15 p
                                                                                   ld
ld
                                                                                                       1, 0x1A(ix)
h, 0x1B(ix)
                                                                                                       bc, #0
hl, bc
NZ, loc_0_349A
hl, #cement_fireball_data
                                                                                    xor
                                                                                    ld
                                                                                   adc
jp
ld
                                                                                                       a, (mario_y_coord)
7, a
                                                                                   ld
bit
                                                                                                        Z, loc_0_34A8
                                                                                    jp
ld
                                                                                                        0xD(ix), #1
3(ix), #0x7E; '~'
                                                                                    ld
                                           loc_0_349A:
                                                                                                                                                                                                            ; CODE XREF: sub_0_3478+C<sup>†</sup>j; sub_0_3478+38<sup>†</sup>j
                                                                                                       a, 0xD(ix) #1
                                                                                    1d
                                                                                    ср
                                                                                                       NZ, loc_0_34B3
                                                                                    jp
inc
                                                                                                        3(ix)
 34A2 DD 34 03
34A5 C3 45 34
34A8
34A8
34A8 DD 36 0D 02
34AC DD 36 03 80
34B0 C3 9A 34
                                                                                                        loc_0_3445
                                                                                    jp
                                            loc 0 34A8:
                                                                                                                                                                                                           ; CODE XREF: sub 0 3478+171i
                                                                                                        0xD(ix), #2
3(ix), #0x80; 'Ç'
loc_0_349A
                                                                                   ld
ld
                                                                                    jр
  34B3
34B3
34B3
                                                                                                                                                                                                            ; CODE XREF: sub_0_3478+27 j
                                            loc_0_34B3:
 34B3 DD 35 03
34B6 C3 45 34
34B6
34B6
                                                                                    dec
                                                                                                        3(ix)
                                            jp loc_0_3445
; End of function sub_0_3478
  34B9
34B9
34B9
34B9
                                                                                   SUBROUTINE
 sub_0_34B9:
                                                                                                                                                                                                           ; CODE XREF: sub_0_32BD+D p
                                                                                                       a, (level_type)
#3
                                                                                   ld
cp
                                                                                    ret
                                                                                                       Z
                                                                                   ld
                                                                                                        a, (mario_y_coord)
7. a
                                                                                                        NZ, loc_0_34ED
                                                                                    jp
ld
                                                                                                       hl, #rivet_fireball_data
                                                                                                                                                                                                           ; CODE XREF: sub_0_34B9+37|j
                                            loc_0_34CA:
                                                                                    ld
                                                                                                       a, (random_no+1)
                                                                                   ld
and
ld
                                                                                                       #6
C, a
hl, bc
a, (hl)
3(ix), a
0xE(ix), a
 34D2 09
34D3 7E
34D4 DD 77 03
34D7 DD 77 0E
34DA 23
34DB 7E
34DE DD 77 0F
34DE DD 77 0F
34E2 AF
34E3 DD 77 0F
34E6 DD 77 1E
34E6 DD 77 1E
34E6 CC9
34ED CC
                                                                                    add
                                                                                   ld
ld
ld
                                                                                    inc
                                                                                                        hl
                                                                                                       hl
a, (hl)
5(ix), a
0xF(ix), a
                                                                                   ld
ld
ld
                                                                                    xor
                                                                                                       0xD(ix), a
0x18(ix), a
0x1C(ix), a
                                                                                   ld
ld
                                                                                    ld
  34ED
34ED
34ED
                                            loc_0_34ED:
                                                                                                                                                                                                           ; CODE XREF: sub_0_34B9+B^j
  34ED 21 D4 3A
34F0 C3 CA 34
34F0
34F0
                                            ld h1, #rivet_fireball_start_points jp loc_0_34CA ; End of function sub_0_34B9
  34F3
34F3
34F3
                                                                                SUBROUTINE
  34F3
 34F3
34F3
34F3
21 00 64
34F6 11 D0 69
34F9 06 05
34FB
34FB
34FB 7E
34FC A7
                                                                                                                                                                                                               CODE XREF: sub_0_30ED+9<sup>†</sup>p
fireball character data
fireballs in sprite ram
                                            sub_0_34F3:
                                                                                                        hl, #unk_0_6400
                                                                                                       de, #soft_sprite_ram+0xD0
b, #5
                                                                                    ld
                                                                                                                                                                                                            ; 5 fireballs (max)
                                                                                    ld
```

loc_0_34FB:

ld

and

jp inc

inc

ld

1d

a, (hl)

a, (hl) (de), a a, #4 a, l

Z, loc_0_351E

34FB 7E 34FC A7

34FC A7
34FD CA 1E 35
3500 2C
3501 2C
3502 2C
3503 7E
3504 12

3505 3E 04 3507 85

; CODE XREF: sub_0_34F3+28 | j

; fireball X coordinate

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
 3508 6F
                                                                                                ld
                                                                                                                       1, a
              1C
7E
12
2C
1C
7E
12
2D
 3509
 350A
350B
350C
350D
                                                                                                                      a, (11-)
(de), a
                                                                                                1d
                                                                                                                                                                                                                                          ; fireball sprite tile #
                                                                                                ld
inc
                                                                                                inc
 350E
350F
3510
3511
3512
3513
3514
                                                                                                ld
ld
                                                                                                                               (h1)
                                                                                                                                                                                                                                          ; fireball palette
                                                                                                                        (de), a
                                                                                                dec
dec
             2D
2D
1C
7E
12
                                                                                               dec
inc
                                                                                                                              (hl)
                                                                                                                                                                                                                                          ; fireball Y coord
3514 7E
3515 12
3516 13
3517
3517
3517 3E 1B
3519 85
351B 10 DE
351B C9
351E
351E
351E
351E
351E 3E 05
                                                                                                                        (de), a
                                                                                                1d
                                                loc 0 3517:
                                                                                                                                                                                                                                          ; CODE XREF: sub 0 34F3+33-i
                                                                                                                      a, #0x1B
a, 1
1, a
                                                                                               1d
                                                                                                add
ld
                                                                                                dinz
                                                                                                                       loc 0 34FB
                                                                                                                                                                                                                                          ; CODE XREF: sub 0 34F3+A1i
                                                loc_0_351E:
 351E 35 05 3520 85 3521 6F 3522 3E 04 3524 83 3525 5F 3526 C3 17 35
                                                                                                                      a, #5
a, 1
1, a
a, #4
                                                                                               ld
add
                                                                                                1d
                                                                                                                       a, #
a, e
                                                                                                14
                                                                                                add
ld
                                                                                                                       e, a
loc_0_3517
                                                                                                jр
 3526
3526
3526
3529 00 00 00
                                                  ; End of function sub_0_34F3
                                                                                                                                                                                                                                                DATA XREF: add bonus and update high score+910
                                                 Bonus Points Tbl:.db 0. 0. 0
3529 00 00 00 00 3522F 00 02 00 3538 00 05 00 3538 00 05 00 3538 00 07 00 3538 00 07 00 3541 00 08 00 3544 00 00 00 3544 00 00 00 3544 00 00 00 35540 00 20 00 3550 00 30 00 3550 00 3550 00 3550 00 3550 00 3555 00 3555 00 60 00 3555 00 60 00 3555 00 60 00 3555 00 60 00 3555 00 80 00 80 00
 3529
352C
352F
                                                                                                                                                                                                                                                0 pts
100 pts
200 pts
                                                                                                .db 0, 1,
.db 0, 2,
.db 0, 3,
.db 0, 4,
                                                                                                                                                                                                                                                 300 pts
                                                                                                                                                                                                                                                300 pts
400 pts
500 pts
600 pts
700 pts
800 pts
900 pts
                                                                                                                   6, 0
7, 0
8, 0
9, 0
                                                                                                 .db
                                                                                                 .db
                                                                                                 .db
                                                                                                 .db
                                                                                                                                                                                                                                                0 pts
                                                                                                                                                                                                                                                1000 pts
2000 pts
3000 pts
                                                                                                 dh
                                                                                                 .db
                                                                                                           0, 0x20,
0, 0x30,
                                                                                                 .db
                                                                                                                   0x40,
                                                                                                                                                                                                                                                 4000 pts
                                                                                                           0, 0x50,
0, 0x60,
0, 0x70,
                                                                                                                                                                                                                                                 5000 pts
6000 pts
7000 pts
                                                                                                 .db
355C 00 70 00
355F 00 80 00
355F 00 80 00
3565 94 77
3567 01 23 24 10+
3567 06 05 00 10+
3587 96 77
3589 02 1E 14 10+
3589 10 00 00 06+
3587 96 77
3589 01 00 00 10+
3587 67 67
3589 877
3588 03 22 14 10+
3588 10 00 00 05+
3588 10 00 00 05+
3588 10 00 00 05+
3588 10 00 00 05+
3588 9 05 00 10+
3569 98 76
                                                                                                 .db
                                                                                                 .db
                                                                                                           0,
                                                                                                                   0x80.
                                                                                                                                                                                                                                                 8000 pts
                                                                                               .db
                                                                                                                                                                                                                                                DATA XREF: read_dips_and_high_score_tbl+53↑o
                                                 high_score_tbl:
35AB 09 05 00 10+
35C9 F8 76
35CB 9A 77
35CD 04 24 18 10+
35CD 00 05 00 10+
35CD 00 05 00 10+
35EB FA 76
35ED 9C 77
35EF 05 24 18 10+
35EF 10 00 00 04+
35EF 10 00 00 04+
35EF 70 00 00 10+
36DD FC 76
360F 5B 5C 6B 5C+
360F 7B 5C 8B 5C+
360F 7B 5C 8B 5C+
360F 9B 5C AB 5C+
                                                                                                 .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, 0x3F, 0, 0, 0x43, 0
.dw VRAM_start+0x2FC
                                                                                                .db
                                                                                                .dw VRAM_start+0x2FC
.db 0x3B, 0x5C, 0x4B, 0x5C, 0x5B, 0x5C, 0x6B, 0x5C, 0x7B
; DATA XREF: sub_0_15FA+41o
.db 0x5C, 0x8B, 0x5C, 0x9B, 0x5C, 0xBB, 0x5C
.db 0x5C, 0x8B, 0x5C, 0x9B, 0x5C, 0xBB, 0x5C
                                                                                                .db 0x5C, 0x8B, 0x5C,
.db 0xCB, 0x5C, 0x3B,
.db 0x6C, 0x7B, 0x6C,
.db 0xBB, 0x6C, 0xCB,
.db 0x7C, 0x6B, 0x7C,
.db 0xAB, 0x7C, 0xBB,
                                                                                                                                                                               0x5C, 0xAB,
0x4B, 0x6C,
0x6C, 0x9B,
0x3B, 0x7C,
0x7C, 0x8B,
0xCB, 0x7C
                                                                                                                                                              0x6C,
0x8B,
0x6C,
                                                                                                                                                                                                                   0x5B,
0x6C,
0x4B,
                                                                                                                                                                                                                                    0x6C, 0x6B
0xAB, 0x6C
0x7C, 0x5B
 360F 9B 5C AB 5C+
360F 3B 6C 4B 6C+
360F 5B 6C 6B 6C+
360F 7B 6C 8B 6C+
360F 7B 6C 8B 6C+
364B 8B 36
364B 8B 36
364B 01 00
364F 98 36
                                                                                                                                                                                                                   0x7C, 0x9B, 0x7C
                                                                                                                                               0x7C, 0x7B, 0xBB, 0x7C,
                                                 message_table:
                                                                                                 .dw aGAME_OVER
                                                                                                                                                                                                                                           ; DATA XREF: print_message_A↑o
                                                                                                 .dw aPLAYER
3651 A5 36
3653 B2 36
3655 BF 36
3657 OG 00
3659 CC 36
3659 CC 36
3659 CC 36
3651 DE 36
3651 C 37
3667 C 30 37
3667 C 37
3667 S 37
3669 A7 37
3669 A7 37
3669 A7 37
3661 B3 37
3667 B3 37
3667 S 22
3667 S 23
3667 S 24
3667 S 36
3675 S 26
3679 S 36
                                                                                                .dw aPLAYER_
.dw aHIGH_SCORE
.dw aCREDIT
.dw 6
                                                                                                .dw aHOW_HIGH_CAN_YOU_GET
.dw 8
.dw aONLY_1_PLAYER_BUTTON
                                                                                                 .dw a1_OR_2_PLAYERS
                                                                                                .dw 0xB
.dw aPUSH
.dw aNAME_REGISTRATION
.dw aNAME
                                                                                                 .dw a???
.dw aA_B_C_D_E_F_G_H_I_J
                                                                                                .dw aK_L_M_N_O_P_Q_R_S_T
.dw aU_V_W_X_Y_Z_rub_end
                                                                                                .dw aU__W_X_Y_Z_rub_erd dw aREGI_TIME
.dw high_score_tbl_ram
.dw hs_tbl_2nd
.dw hs_tbl_3rd
.dw hs_tbl_4th
.dw hs_tbl_5th
.dw hs_tbl_5th
```

367D 9E

367F B6 37

.dw aRANK SCORE NAME

.dw aYOUR_NAME_WAS_REGISTERED

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
  3681 D2 37
                                                                                .dw aINSERT_COIN
  3683 E1 37
                                                                                 .dw aPLAYER_COIN
 3685
3687
3689
                                                                                .dw Ox1D
.dw byte_0_3EFF+1
.dw byte_0_3F09
  368B 96 76 17 11+aGAME_OVER:
                                                                               .db 0x96, 0x76, 0x17, 0x11, 0x1D, 0x15, 0x10, 0x10, 0x1F
 368B 1D 15 10 10+
368B 1F 26 15 22+
3698 94 76 20 1C+aPLAYER:
                                                                                                                                                                                                    : DATA XREF: 0000:364B10
                                                                             .db 0x26, 0x15, 0x22, 0x3F
.db 0x94, 0x76, 0x20, 0x1C, 0x11, 0x29, 0x15, 0x22,
                                                                                                                                                                                                            0x10
                                                                                                                                                                                                   ; DATA XREF: 0000:364F10
  3698 11
                  29
                                                                             .db 0x30, 0x32, 0x31, 0x3F
.db 0x94, 0x76, 0x20, 0x1C, 0x11, 0x29, 0x15, 0x22, 0x10
; DATA XREF: 0000:3651
            10 30
94 76
11 29
  3698
                           32
  36A5
                           15 22+
           36A5
  36B2
  36B2
                                                                                                                                                                                                   ; DATA XREF: 0000:3653 o
                                                                               .db 0x1F, 0x22, 0x15, 0x3F
  36B2
            13 1F
                                                                             .db 0x9F, 0x75, 0x13, 0x22, 0x15, 0x14, 0x19, 0x24, 0x10
; DATA XREF: 0000:3655
 36BF 9F 75 13 22+aCREDIT:
           15 14 19 24+
10 10 10 10+
5E 77 18 1F+
27 10 18 19+
  36BF
36BF
                          10 10+ .db 0x10, 0x10, 0x10, 0x3F
18 1F+aHOW_HIGH_CAN_YOU_GET:.db 0x5E, 0x77, 0x18, 0x1F, 0x27, 0x10, 0x18, 0x19, 0x1
  36CC
  36CC
                                                                                                                                                                                                       DATA XREF: 0000:365910
 36FD 29 77 01 10+3
36FD 1F 22 10 02+
36FD 10 20 1C 11+
36FD 29 15 22 23+
 3715
371C
371C
371C
 371C 24 22 11 24+
3730 88 76 1E 11+aNAME:
3730 1D 15 2E 3F
3738 E9 75 2D 2D+a???:
                                                                              .db 0x1r, 0x1s, .db 0x1e, 0x3f, .db 0x88, 0x76, 0x1e, 0x11, 0x1D, 0x15, 0x2e, 0x3f ; DATA XREF: 0000:366710
, DATA XREF: 0000:3667 o

, JAZD, UXZD, UXZD, UXZD, UX10, OX10, OX10, OX10

; DATA XREF: 0000:3669 o

3738 10 10 10 10 + .db 0x10, 0x10, 0x10, 0x10, 0x10, 0x3F

3747 08 77 11 10+aA_B_C_D_F_G_H_I_J:.db 0x8, 0x77, 0x11, 0x10, 0x12, 0x10, 0x13, 0x10, 0x14

3747 12 10 13 10+ .db 0x10, 0x15, 0x10, 0x16, 0x10, 0x17, 0x10, 0x18, 0x10

3747 14 10 15 10+ .db 0x10, 0x15, 0x10, 0x16, 0x10, 0x17, 0x10, 0x18, 0x10

3747 16 10 17 10+ .db 0x19, 0x10, 0x18, 0x3F

375D 0D 77 aK_L_M_N_O_P_O_R S T: dw UNCY

375F 18 10 12 10
                                        375F 1B 10 1C 10+
 375F 1B 10 1C 1U+
375F 1D 10 1E 10+
375F 1F 10 20 10+
3773 0F 77 aU
                                       )+ .db 0x24, 0x3F

aU_V_W_X_Y_Z_rub_end:.dw VRAM_start+0x30F ; DATA XI

)+ .db 0x25, 0x10, 0x26, 0x10, 0x27, 0x10, 0x28, 0x10, 0x29

)+ .db 0x10, 0x2A, 0x10, 0x2B, 0x10, 0x2C, 0x44, 0x45, 0x46

)+ .db 0x47, 0x48, 0x10, 0x3F

aREGI_TIME: .dw VRAM_start+0x2F2 ; DATA XI

.db 0x12, 0x15, 0x17, 0x19, 0x10, 0x24, 0x19, 0x10, 0x15

.db 0x10, 0x10, 0x30, 3, 0, 0x31, 0x10, 0x3F

aRANK_SCORE_NAME:.dw VRAM_start+0x392 ; DATA XI

.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x24, 0x10, 
                                                                                                                                                                                                    ; DATA XREF: 0000:366F1o
            25 10 26 10+
27 10 28 10+
29 10 2A 10+
 378B F2 76
378D 22 15 17 19+
378D 10 24 19 1D+
379E 92 77
                                                                                                                                                                                                    ; DATA XREF: 0000:36711o
                                                                                                                                                                                               ; DATA XREF: 0000:367D10
                                                                              db 0x22, 0x11, 0x1E, 0x1B, 0x10, 0x10, 0x23, 0x13, 0x1F, db 0x22, 0x15, 0x10, 0x10, 0x1E, 0x11, 0x1D, 0x15, 0x10, db 0x20, 0x10, 0x10, 0x3F
           22 11 1E 1B+
10 10 23 13+
1F 22 15 10+
72 77
 37A0
  37A0
37A0
37A0
37B6
 37B6 72 77 aYOUR_NAME_WAS_REGISTERED: .dw VRAM_start+0x372
37B8 29 1F 25 22+ dh 0x20 0x1F 0 07 0 1
                                                                                                                                                                                                    ; DATA XREF: 0000:367F\0
                                                                            REGISTERED: dw VRAM_start+0x372 ; DATA XF
.db 0x29, 0x1F, 0x25, 0x22, 0x10, 0x1E, 0x11, 0x1D, 0x15
.db 0x10, 0x27, 0x11, 0x23, 0x10, 0x22, 0x15, 0x17, 0x19
.db 0x23, 0x24, 0x15, 0x22, 0x15, 0x14, 0x42, 0x3F
.dw VRAM_start+0x2A7 ; DATA XF
.db 0x19, 0x1E, 0x23, 0x15, 0x22, 0x24, 0x10, 0x13, 0x1F
.db 0x19, 0x1E, 0x20, 0x3F
.dw VRAM_start+0x30A
.dw VRAM_start+0x30A
.db 0x10, 0x10, 0x20, 0x1C, 0x11, 0x29, 0x15, 0x22, 0x24
 37B8 10 1E 11 1D+

37B8 15 10 27 11+

37D2 A7 76 aINSERT_COIN
                                                                                                                                                                                                   ; DATA XREF: 0000:3681 to
                                        aINSERT_COIN:
 37D2 A7 76 aINSERT_COIN:

37D4 19 12 23 15+

37D4 22 24 10 13+

37B1 0A 77 aPLAYER_COIN:

37B3 10 10 20 1C+
                                                                                                                                                                                                   ; DATA XREF: 0000:3683 o
                                                                                .db 0x10, 0x10, 0x20, 0x1C, 0x11, 0x29, 0x15, 0x22, 0x10
.db 0x10, 0x10, 0x20, 0x13, 0x1F, 0x19, 0x1E, 0x3F
 37E3 11 29 15 22+
37F4 FC 76
37F6 49 4A 10 1E+a_NINTENDO:
                                                                               .db 0x10, 0x10, 0x10, 0x13, 0x1F, 0x12, 0x1E, 0x11
.dw VRAM_start+0x2FC
.db 0x49, 0x4A, 0x10, 0x1E, 0x19, 0x1E, 0x24, 0x15, 0x1E
.db 0x14, 0x1F, 0x10, 0x10, 0x10, 0x10, 0x3F
.dw VRAM_start+0x17C
 37F6
            19 1E 24 15+
7C 75
 3808 01 09 08 01+
380D 02 97 38 68+
                          08 01+ .db 1, 9, 8, 1, 0x3F
38 68+draw_data_climb:.db 2, 0x97, 0x38, 0x68, 0x38, 2, 0xDF, 0x54, 0x10, 0x54
           38 02 DF 54+
10 54 02 EF+
6D 20 6D 02+
                                                                               ..db 2, 0x97, 0x36, 0x86, 0x38, 2, 0xbF, 0x34, 0x10, 0x34

; DATA XREF: 0000:0A9210

.db 2, 0xEF, 0x6D, 0x20, 0x6D, 2, 0xDF, 0x8E, 0x10, 0x8E

.db 2, 0xEF, 0xAF, 0x20, 0xAF, 2, 0xDF, 0xD0, 0x10, 0xD0

.db 2, 0xEF, 0xF1, 0x10, 0xF1, 0, 0x53, 0x18, 0x53, 0x54

.db 0, 0x63, 0x18, 0x63, 0x54, 0, 0x93, 0x38, 0x93, 0x54

.db 0, 0x83, 0x54, 0x83, 0xF1, 0, 0x93, 0x54, 0x93, 0xF1
 380D
 380D
380D
  380D DF 8E
                                 8E+
 380D DF GE 10 GE

380D 02 EF AF 20+

380D AF 02 DF D0+

380D 10 D0 02 EF+

384A 8D 7D 8C
                                                                                 .db 0xAA
                                  bonus_graphic_tiles:.db 0x8D, 0x7D, 0x8C
                                                                                                                                                                                                   ; DATA XREF: 0000:064D1o
 384D 6F
3850 6E
                                                                              .db
                                 .db 0x6D, 0, 0x7C
.db 0x6C, 0, 0x7C
.db 0x8F, 0x7F, 0x8E
50+kong_normal_spr:.db 0x47, 0x27, 8, 0x50
  3853
3856
            6D 00
 3859 8F 7F 8E
385C 47 27 08 50+1
385C 2F A7 08 50+
                                                                                                                                                                                                  ; DATA XREF: animate_kong_and_pauline+74\u00e10 o ; 0000:0B1E\u00e10 o ...
; DATA XREF: 0000:0AC01o
                                                                                                                                                                                                   ; 0000:168B\(\)0 ...
```

.db 0, 0x35, 8, 0x3C .db 0x53, 0x32, 8, 0x40 .db 0x63, 0x33, 8, 0x40

DATA XREF: 0000:0AA91o

3894 53 32 08 40 3898 63 33 08 40 389C 00 70 08 48

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
   38B4 FE FE FE FE+
                                                                                                                                 .db 0xFE, 0xFE, 0xFE, 0xFE, 0xFF, 0xFF, 0xFF, 0xFF, 0
   DxFF, 0, 0, 1, 0
; DATA XREF: 0000:0AAF\(\)0000:0B86\(\)0
                    01 01 01 01+ ...db 1, 1, 1, 1, 0x7F

04 7F F0 10+draw_data_bend_girders_2:.db 4, 0x7F, 0xF0, 0x10, 0xF0, 2, 0xDF, 0xF2, 0x70, 0xF8

F0 02 DF F2+ ...db 2, 0x6F, 0xF8, 0x10, 0xF8, 0xAA, 4, 0xDF, 0xD0, 0x90
   38CB 01 01 01 01+
    3800
| CAPTA TREF: 0000:0B91|0 | CAPTA TREF: 0000:0B48|0 | CAPTA TREF: 0000:0B48|0 | CAPTA TREF: 0000:0B48|0 | CAPTA TREF: 0000:0B48|0 | CAPTA TREF: 0000:1B71|0 | CAPTA TREF: 0000
   38DC F0 02 DF F2+
38DC 70 F8 02 6F+
  3932 3B AE 08 4C+

3932 4B BO 07 3C+

3932 4B BO 07 3C+

3932 4B AD 08 4C+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 44+

3932 00 70 08 4C+

3932 00 70 70 8 4C+

3932 00 70 8 4C+

3932 
  39AA FD FD FD FEH-DOUNGING_STATE
39AA FE FE FF FF
39AA FF 00 FF 00+
39AA FD 00 FF FF+
39C3 IE 4E BB 4C+barell_rolling_data:.db 0xFF, 0, 0, 1, 0, 1, 1, 2, 2, 2, 2, 3, 3, 3, 0x7F
39C3 IE 4E BB 4C+barell_rolling_data:.db 0x1E, 0x4E, 0x8B, 0x4C, 0xD8, 0x4E, 0x59, 0x4E, 0x7F
39C3 D8 4E 59 4E+
39C3 D8 4E 59 4E+
39C3 D8 4E 59 4E+
39C4 D8 4E 59 4E+
39C5 DATA XREF: sub_0_2C8F+FD[0]
39C6 DATA XREF: sub_0_2C8F+F4[0]
39C6 DATA XREF: animate_kong_and_pauline+43[0]
39C6 DATA XREF: animate_kong_and_pauline+43[0]
39C7 DATA XREF: animate_kong_and_pauline+43[0]
39CF 47 27 08 50 dk_thrash_right_spr:.db 0x47, 0x27, 8, 0x50
39D3 2D 26 08 50 .db 0x3D, 0x2D, 0x26, 8, 0x50
39D7 3B 25 08 50 .db 0x3B, 0x25, 8, 0x50
39D8 00 70 08 48 .db 0, 0x70, 8, 0x48
39DF 3B 24 07 40 .db 0x3B, 0x24, 7, 0x40
39E3 4B 28 08 40 .db 0x3B, 0x24, 7, 0x40
39E3 4B 28 08 40 .db 0x3B, 0x24, 7, 0x44
39E7 00 70 08 48 .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
39EF 3D 0 70 08 48 .db 0, 0x70, 0xA, 0x48
39F3 3D 0 70 08 48 .db 0, 0x70, 0xA, 0x48
39F7 49 A6 08 50 dk_thrash_left_spr:.db 0x49, 0xA6, 8, 0x50
39FB 27 A7 08 50 .db 0x2F, 0xA7, 8, 0x50
39FB 3B 25 08 5D .db 0x2F, 0xA7, 8, 0x50
39FB 3B 25 08 5D .db 0x2F, 0xA7, 8, 0x50
3AD3 3D 7D 08 48 .db 0, 0x70, 8, 0x48
3AD8 46 A9 08 44 .db 0x3B, 0x24, 7, 0x40
3AD8 46 A9 08 48 .db 0, 0x70, 8, 0x48
3A13 2B A8 08 40 .db 0x2B, 0x2A8, 8, 0x40
3A17 00 70 08 48 .db 0x2B, 0x2A8, 8, 0x40
3A18 00 70 0A 48 .db 0x2B, 0x2A8, 8, 0x40
3A17 00 70 08 48 .db 0x2B, 0x2A8, 8, 0x40
3A18 070 070 08 48 .db 0x2B, 0x7A8, 0x88
3A18 070 070 08 48 .db 0x2B, 0x7A8, 0x88
3A18 070 070 08 48 .db 0x2B, 0x2A8, 8, 0x40
3A17 07 07 08 88 .db 0x2B, 0x7A8, 0x88
3A18 070 070 08 48 .db 0x2B, 0x7A8, 0x88
3A18 070 070 08 48 .db 0x2B, 0x7A8, 0x88
3A18 070 070 08 48 .db 0x2B, 0x7A8, 0x88
3A18 070 070 08 48 .db 0x2B, 0x7A8, 0x88
3A18 070 070 08 48 .db 0x2B, 0x7A8, 0x88, 0x60
3A28 077 078 68 68 .db 0x77, 0x2A, 0x87, 0x70
3A33 74 29 88 6C .db 0x74, 0x29, 0x88, 0x66
3A37 00 70 88 68 .db 0x74, 0x29, 0x88, 0x60
3A38 8A A9 88 6C .db 0x8A, 0x89, 0x88, 0x66
                                                                                                                                                                                                                                                                                                                   ; DATA XREF: animate_kong_and_pauline+4A<sup>↑</sup>o
                                                                                                                                                                                                                                                                                                                   ; DATA XREF: 0000:1870<sup>†</sup>o
   3A2F 7F
3A33 74
3A37 00
                               24
29
70
   3A37 00 70 88 68
3A3B 8A A9 88 6C
3A3F 00 70 88 68
3A43 00 70 8A 68
3A47 05 27
                                                                                                                                .db 0, 0x70, 0x88, 0x68
                                                                                                                                 .db 0, 0x70, 0x88, 0x88, 0x88, 0x88, 0x68
.db 0, 0x70, 0x88, 0x68
.db 0, 0x70, 0x8A, 0x68
                                                                                                                                                                                                                     0×60
 3A43 00 70 8A 68 ...db 0, 0x70, 0x8A, 0x68
3A47 05 AF F0 50+draw_data_rivet_end1:.db 5, 0xAF, 0xF0, 0x50, 0xF0, 0xAA
3A4D 05 AF E8 50+draw_data_rivet_end2:.db 5, 0xAF, 0xE8, 0x50, 0xE8, 0xAA
3A53 05 AF E0 50+draw_data_rivet_end3:.db 5, 0xAF, 0xE0, 0x50, 0xE0, 0xAA
3A59 05 AF D8 50+draw_data_rivet_end4:.db 5, 0xAF, 0xD8, 0x50, 0xD8, 0xAA
3A5F 05 B7 58 48+draw_data_rivet_end5:.db 5, 0xB7, 0x58, 0x48, 0x58, 0xAA
3A5F 01 04 01 03+level_seq_1: ..db 1, 4, 1, 3, 4, 1, 2, 3, 4, 1, 2, 1, 3, 4
3A73 01 02 01 03+level_seq_2: ..db 1, 2, 1, 3, 1, 4, 0x7F
                                                                                                                                                                                                                                                                                                                      ; DATA XREF: 0000:17D9\u00f30
; DATA XREF: 0000:17E5\u00f30
; DATA XREF: 0000:17F1\u00f30
; DATA XREF: 0000:17FD\u00f30
                                                                                                                                                                                                                                                                                                                               DATA XREF: 0000:18A5 o
                                                                                                                                                                                                                                                                                                                              DATA XREF: 0000:1845|
DATA XREF: 0000:095F|
DATA XREF: 0000:1799|
0000:1947|o
   3A73 01 04 7F

3A7A FF 00 FF FF+fireball_bouncing_data:.db 0xFF, 0, 0xFF, 0xFF, 0xFE, 0xFE, 0xFE, 0xFE, 0xFE

; DATA XREF: sub_0_3202+65 o
  3A8C E1 E0 DF DE+
3A8C DD DD DC DC+
3A8C DC DC DC DC+
   3A8C DD DD DE DF+
   3AAC
3AAC
                                                                                                                              ; DATA XR
.db 0x70, 0x6F, 0x6F, 0x6F, 0x70, 0x70, 0x71, 0x72, 0x73
.db 0x74, 0x75, 0x76, 0x77, 0x78, 0xAA
    3AAC
3AAC
   3AC4 EE F0 DB A0+rivet_fireball_data:.db 0xEE, 0xF0, 0xDB, 0xA0, 0xE6, 0xC8, 0xD6, 0x78, 0xEB
3AC4 EE C8 D6 78+ ; DATA XREF: sub_0_34B9+E10
   3AC4 EE FO DB AO+11VEC_1116
3AC4 E6 C8 D6 78+
3AC4 EB FO DB AO+
                                                                                                                                  .db 0xF0, 0xDB, 0xA0, 0xE6, 0xC8, 0xE6, 0xC8
   3AD4 1B C8 23 AO+rivet_fireball_start_points:.db 0x1B, 0xC8, 0x23, 0xA0, 0x2B, 0x78, 0x12, 0xF0, 0x1B
3AD4 2B 78 12 F0+ ; DATA XREF: sub_0_34
3AD4 1B C8 23 AO+ ...db 0xC8, 0x23, 0xA0, 0x12, 0xF0, 0x1B, 0xC8
                                                                                                                                                                                                                                                                                                                    ; DATA XREF: sub_0_34B9+34↑o
   3AD4 1B C8
3AE4 02 97
                                            23 A0+ .db 0xC8, 0x23, 0xA0, 0x12, 0xF0, 0x1B, 0xC8
38 68+barrel_level_tilemap_data:.db 2, 0x97, 0x38, 0x68, 0x38, 2, 0x9F, 0x54, 0x10, 0x54
                                                                                                                              3AE4 38 02 9F 54+
3AE4 10 54 02 DF+
3AE4 58 AO 55 02+
   3AE4 EF 6D 20 79+
3AE4 02 DF 9A 10+
3AE4 8E 02 EF AF+
3AE4 20 BB 02 DF+
                                                                                                                                                                                 0x18, 0x63,
0x78, 0x33,
0x18, 0x53,
                                                                                                                                                                                                                                                      1, 0x63, 0xD5, 0x63, 0xF8
0, 0x33, 0xBA, 0x33, 0xD2
1, 0x53, 0x92, 0x53, 0xB8
0, 0x73, 0xB6, 0x73, 0xD6
   3AE4 DC 10 D0 02+
    3AE4 FF F0 80 F7+
3AE4 02 7F F8 00+
                                                                                                                                 .db
                                                                                                                                                                                                                               0x90,
0x54,
   3AE4 F8 00 CB 57+
                                                                                                                                 .db 0,
                                                                                                                                                         0x5B, 0x76, 0x5B, 0x92,
   3AE4 CB 6F
                                            00 CB+
                                                                                                                                  .db 0.
                                                                                                                                                          0x83.
                                                                                                                                                                                 0x95.
                                                                                                                                                                                                         0x83.
                                                                                                                                                                                                                                0xB5.
                                                                                                                                                                                                                                                                 0x93
                                                                                                                                                                                                                                                                                         0x38.
    3AE4 99 CB B1 00+
3AE4 CB DB CB F3+
                                                                                                                                  .db
                                                                                                                                                           0xBB, 0x70, 0xBB, 0x98, 1, 0x6B, 0x54, 0x6B, 0x75
                                                                                                                                   .db
                                                       70+cement_pie_level_tilemap_data:.db 6, 0x8F, 0x90, 0x70, 0x90, 6, 0x8F, 0x98, 0x70,
    3B5D 06 8F 90
                                                                                                                               ; DATA XREF: 0000:0CDF\0; sub_0_2441+20\0.
    3B5D 90 06 8F 98+
   3B5D 70 98 06 8F+
3B5D A0 70 A0 00+
```

.db 0, 0x63, 0x80, 0x63, 0xA8, 0, 0x63, 0xD0, 0x63, 0xF8 .db 0, 0x53, 0x18, 0x53, 0x58, 0, 0x53, 0xA8, 0x53, 0xD0

3B5D 63 18 63 58+ 3B5D 00 63 80 63+

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst
                                                                                                                                                                                                                                  28/11/2013, 10:46:00 PM
3B5D A8 00 63 D0+
                                                                                                               .db 0, 0x9B, 0x80,
                                                                                                                                                                               0x9B,
                                                                                                                                                                                                   0xA8,
                                                                                                                                                                                                                       0,
                                                                                                                                                                                                                                 0x9B,
3B5D A8 00 63 D0+

3B5D 63 F8 00 53+

3B5D 18 53 58 00+

3B5D 53 A8 53 D0+

3B5D 00 9B 80 9B+

3B5D A8 00 9B D0+

3B5D 9B F8 01 23+

3B5D 58 23 80 01+
                                                                                                                                                                                                                                                                          0xDB,
                                                                                                                .db
                                                                                                                                      0x23.
                                                                                                                                                          0x58.
                                                                                                                                                                               0x23.
                                                                                                                                                                                                   0x80.
                                                                                                                                                                                                                                 0xDB.
                                                                                                                                                                                                                                                     0x58.
                                                                                                                                                                                                                                                                                               0x80
                                                                                                               .db
.db
                                                                                                                                     0x2B,
0xA3,
0xD3,
                                                                                                                                                                               0x2B,
0xA3,
0xD3,
                                                                                                                                                                                                   0xA8,
0xD0,
0xF8,
                                                                                                                                                                                                                                 0xD3,
0x2B,
0x93,
                                                                                                                                                          0x80
                                                                                                                                                                                                                                                      0x80
                                                                                                                                                                                                                                                                          0xD3,
                                                                                                                                                                                                                                                                                               0xA8
                                                                                                                                                           0xA8,
0xD0,
                                                                                                                                                                                                                                                     0xD0,
0x38,
                                                                                                                                     0x97,
0xF7,
0xA7,
0x3F,
                                                                                                                                                                                                  0x38,
0x80,
0xA8,
0xA8,
                                                                                                                                                                                                                       3,
3,
2,
3,
                                                                                                                                                                                                                                 0xEF, 0x58, 0x10, 0x58
0x77, 0x80, 8, 0x80
0xE7, 0xA8, 0xB8, 0xA8
0xEF, 0xD0, 0x10, 0xD0
                                                                                                                                                          0x38,
                                                                                                               .db
                                                                                                                                                                               0x68,
                                                                                                                            3, 2, 2,
                                                                                                                                                         0x80,
0x88,
0xA8,
                                                                                                                                                                              0x88,
0x50,
0x18,
                                                                                                                dh
3B5D 58 F0 01 23+
3B5D 58 23 80 01+
3B5D DB 58 DB 80+
                                                                                                                .db
                                                                                                               .db
3B5D 00
                         2B 80
                                             2B+
                                                                                                                 .db
                                                                                                                                      0xEF
                                                                                                                                                           0xF8,
                                                                                                                                                                               0x10,
                                                                                                                                                                                                    0xF8,
                                                                                                                                                                                                                       0xAA
              00 63 18 63+65 00 63 88+63 D0 00 53+
                                                                                                                                                                                                                       0x63, 0x58, 0, 0x63, 0x88, 0x63, 0xD0
; DATA XREF: 0000:0CFA†o
; sub_0_2441+27†o
3BE5
                                             63+elevator_level_tilemap_data:.db 0,
                                                                                                                                                                                                    0x18,
3BE5
               18 53 58 00+
53 88 53 D0+
00 E3 68 E3+
90 00 E3 B8+
                                                                                                              .db 0, 0x53,
.db 0, 0xE3,
.db 0, 0xCB,
.db 0, 0x9B,
                                                                                                                                                         0x18,
0x68,
0x90,
                                                                                                                                                                              0x53,
0xE3,
0xCB,
                                                                                                                                                                                                  0x58,
0x90,
0xB0,
                                                                                                                                                                                                                       0,
0,
0,
                                                                                                                                                                                                                                 0x53, 0x88, 0x53, 0xD0
0xE3, 0xB8, 0xE3, 0xD0
0xB3, 0x58, 0xB3, 0x78
3BE5
3BE5
3BE5
 3BE5
                                                                                                                                                          0x80.
                                                                                                                                                                               0x9B.
                                                                                                                                                                                                   0xA0.
                                                                                                                                                                                                                                 0x93,
                                                                                                                                                                                                                                                     0x38.
                                                                                                                                                                                                                                                                          0x93.
                                                                                                                                                                                                                                                                                               0x58
                                                                                                                                                                                                  0xA0,
0xC0,
0x38,
0x68,
0x78,
0x88,
0x90,
3BE5 E3 D0 00 CB+
3BE5 90 CB B0 00+
3BE5 B3 58 B3 78+
                                                                                                               .db
.db
                                                                                                                                     0x23,
0x97,
0xEF,
                                                                                                                                                                                                                                 0x1B,
0xB7,
0xD7,
                                                                                                                                                          0x88
                                                                                                                                                                               0x23
                                                                                                                                                                                                                       0,
2,
2,
2,
2,
2,
2,
2,
2,
                                                                                                                                                                                                                                                      0xC0
                                                                                                                                                                                                                                                                          0x1B
                                                                                                                                                                                                                                                                                               0xE8
                                                                                                                                                          0x38,
0x68,
                                                                                                                                                                                                                                                     0x58,
0x70,
                                                                                                                                                                               0xE0,
                                                                                                                                                                                                                                                                          0xC8,
3BE5 00 9B 80 9B+
3BE5 A0 00 93 38+
3BE5 93 58 00 23+
3BE5 88 23 C0 00+
3BE5 1B C0 1B E8+
3BE5 02 97 38 68+
                                                                                                                                                          0x78,
0x88,
0x90,
0xA8,
                                                                                                                .db
                                                                                                                                      0xBF.
                                                                                                                                                                               0xB0.
                                                                                                                                                                                                                                 0xA7.
                                                                                                                                                                                                                                                      0x80.
                                                                                                                                                                                                                                                                          0x90,
                                                                                                                                                                                                                                                                                               0x80
                                                                                                                                                                               0x48,
0xC8,
0xB0,
                                                                                                                                                                                                                                 0xA7,
0x27,
0xA7,
0xD7,
                                                                                                                                                                                                                                                     0x88,
0xA0,
0xB0,
                                                                                                               .db
                                                                                                                                      0x67,
0xEF,
                                                                                                                                                                                                                                                                          0x10,
0x98,
                                                                                                                                                                                                                                                                                               0x88
0xA0
                                                                                                               .db
                                                                                                                                      0xBF,
                                                                                                                                                                                                                                                                          0xC8,
                                                                                                                                                                                                                                                                                               0xB0
                                                                                                                .db
                                                                                                                                      0xEF
                                                                                                                                                          0xB8
                                                                                                                                                                               0xE0
                                                                                                                                                                                                    0xB8.
                                                                                                                                                                                                                                 0x27
                                                                                                                                                                                                                                                      0xC0
                                                                                                                                                                                                                                                                          0x10.
                                                                                                                                                                                                                                                                                               0xC0
               02 97 38
38 02 B7
                                                                                                                .db
                                                                                                                                     0xEF,
0xCF,
0x9F,
0xEF,
                                                                                                                                                          0xD0,
0xD8,
                                                                                                                                                                              0xD8,
0xC0,
0x88,
0x10,
                                                                                                                                                                                                   0xD0,
0xD8,
                                                                                                                                                                                                                                 0x67,
0xB7,
                                                                                                                                                                                                                                                     0xD0,
0xE0,
                                                                                                                                                         0xD8, 0xC0, 0xD8, 2, 0x27, 0xE8, 0xIU, 0xE8, 0x88, 0xE8, 0xE
              10 58 02 EF+ db 2, 0x9F, 68 E0 68 02+ db 2, 0x9F, 00 7B 80 7B+rivet_level_tilemap_data:.db A8 00 7B D0+ 7B F8 00 33+
3BE5
 3BE5
 3C8B 00
3C8B A8
 3C8B
3C8B 58 33 80 00 48 58 AB+ 3C8B 58 50 AB 58 AB+ 3C8B 80 00 CB 58+ 3C8B 80 00 CB 58+ 3C8B 80 02 BA 80 00+ 3C8B 80 80 2B A8 00+ 3C8B 80 80 80 A8 + 3C8B 80 80 A8 + 3C8B 80 A8 + 3C8B 80 + 3C8B 80 + 3C8B 80 + 3C8
                                                                                                               .db 0, 0x33,
                                                                                                                                                                             0x33, 0x80, 0,
0xAB, 0x80, 0,
0x2B, 0xA8, 0,
                                                                                                                                                                                                                                 0x53, 0x58, 0x53, 0x80
0xCB, 0x58, 0xCB, 0x80
0xD3, 0x80, 0xD3, 0xA8
                                                                                                               .db 0, 0xAB,
.db 0, 0x2B,
                                                                                                                                                          0x58,
0x80,
                                                                                                                                      0x23.
                                                                                                                .db
                                                                                                                                                          0xA8.
                                                                                                                                                                               0x23.
                                                                                                                                                                                                    0xD0.
                                                                                                                                                                                                                       0.
                                                                                                                                                                                                                                 0x5B.
                                                                                                                                                                                                                                                     0xA8.
                                                                                                                                                                                                                                                                          0x5B.
                                                                                                                                                                                                                                                                                               0xD0
                                                                                                                                                                                                                       0, 0x5B,
0, 0xDB,
0, 0xE3,
5, 0xCF,
5, 0xDF,
5, 0xEF,
                                                                                                                                     0xA3,
0xA3,
0x1B,
0xB7,
                                                                                                                                                          0xA8,
0xD0,
0x30,
                                                                                                                                                                               0xA3,
0xAB,
0x48,
                                                                                                                                                                                                   0xD0,
0xD0,
0xF8,
0x30,
                                                                                                                                                                                                                                                     0xA8,
0xD0,
0x58,
                                                                                                                                                                                                                                                                          0xDB,
0xE3,
0x30,
                                                                                                                .db
                                                                                                                                                                                                                                                                                               0xD0
                                                                                                               .db
                                                                                                                                                                                                                                                                                              0xF8
0x58
3C8B D3 80 D3 A8+
3C8B D0 23 A8 23+
3C8B D0 00 5B A8+
3C8B 5B D0 00 A3+
3CF0 10 85 80 8B+
3CF0 10 85 80 8B+
3CF0 10 87 85 8B+
3CF0 10 87 85 8B+
                                                                                                                .db
                                                                                                                                      0xD7.
                                                                                                                                                          0x80.
                                                                                                                                                                               0x28.
                                                                                                                                                                                                    0x80.
                                                                                                                                                                                                                                                      0xA8.
                                                                                                                                                                                                                                                                          0x20.
                                                                                                                                                                                                                                                                                               0xA8
                                                                                                                .db
                                                                                                                                      0xE7
                                                                                                                                                          0xD0,
                                                                                                                                                                               0x18,
                                                                                                                                                                                                   0xD0
                                             .db 0x87, 0x85, 0x8B, 0x81, 0x80, 0x80, 0x8B, 0x81, 0x82
.db 0x85, 0x8B, 0x81, 0x85, 0x80, 0x8B
                                                       title_screen:
                                                                                                                                                                                                                                                                                 ; DATA XREF: 0000:07F7 o ; RLE-encoded "DONKEY KONG" title
 3D08 05
                                                                                                              .db 5
3008
3D08
3D09 88 77
3D0B 01
3D0C 68 77
                                                                                                                .dw VRAM_start+0x388
                                                                                                               .db
                                                                                                                .dw VRAM_start+0x368
3D0E 01
3D0F 6C 77
3D11 03
                                                                                                                .db
                                                                                                                .dw VRAM_start+0x36C
                                                                                                               .db
                49 77
3D12 49
3D14 05
3D15 08
3D17 01
                                                                                                                .dw VRAM_start+0x349
                                                                                                                .db
               08 77
01
                                                                                                                .dw VRAM_start+0x308
                                                                                                                .db
3D18 E8 76
3D1A 01
3D1B EC 76
                                                                                                               .dw VRAM_start+0x2E8
.db 1
.dw VRAM_start+0x2EC
 3D1D
                                                                                                               .db
3D1E C8 76
                                                                                                                .dw VRAM_start+0x2C8
              05
88 76
                                                                                                               .db 5
.dw VRAM_start+0x288
3D23
 3D23 02
3D24 69 76
                                                                                                                .db
                                                                                                                .dw VRAM_start+0x269
3D24 69
3D26 02
3D27 4A
3D29 05
                                                                                                                .db
                4A 76
                                                                                                                .dw VRAM_start+0x24A
                                                                                                               .db
3D2A 28 76
3D2C 05
3D2D E8 75
                                                                                                               .dw VRAM_start+0x228
.db 5
                                                                                                                .dw VRAM_start+0x1E8
3D2F 01
3D30 CA 75
3D32 03
3D33 A9 75
                                                                                                                .db
                                                                                                               .dw VRAM_start+0x1CA
.db 3
                                                                                                                .dw VRAM_start+0x1A9
3D35 R9 75
3D35 01
3D36 88 75
3D38 01
3D39 8C 75
                                                                                                               .dw VRAM_start+0x188
.dw VRAM_start+0x188
.db 1
                                                                                                                .dw VRAM start+0x18C
3D3B 05
3D3C 48
3D3E 01
                                                                                                                .db
                        75
                                                                                                                .dw VRAM_start+0x148
                                                                                                                .db
3D3F 28 75
                                                                                                                .dw VRAM_start+0x128
3D3F 28 75
3D41 01
3D42 2A 75
3D44 01
3D45 2C 75
3D47 01
3D48 08 75
3D4A 01
                                                                                                               .db 1
.dw VRAM_start+0x12A
                                                                                                                .db \frac{1}{2} .dw VRAM_start+\frac{0}{2}
                                                                                                               .db
                                                                                                                            VRAM_start+0x108
                                                                                                               .db
3D4A 01
3D4B 0A 75
3D4D 01
3D4E 0C 75
3D50 03
                                                                                                               .dw VRAM_start+0x10A
.db 1
                                                                                                                .dw VRAM_start+0x100
                                                                                                                .db
3D51 C8 74
3D53 03
3D54 AA 74
                                                                                                                .dw VRAM_start+0xC8
                                                                                                                .dw VRAM_start+0xAA
3D56 03
3D57 88 74
3D59 05
                                                                                                                .db
                                                                                                               .dw VRAM_start+0x88
.db 5
              05
2F 77
3D5A
                                                                                                                .dw VRAM start+0x32F
3D5C
               05
                                                                                                                .db 5
3D5D 0F 77
3D5F 02
                                                                                                               .dw VRAM_start+0x30F
.db 2
 3D60 F0 76
                                                                                                               .dw VRAM start+0x2F0
3D62 02
                                                                                                                .db
3D63 CF
3D65 02
                         76
                                                                                                               .dw VRAM_start+0x2CF
.db 2
3D66 D2 76
                                                                                                                .dw VRAM_start+0x2D2
3D68 05
3D69 8F 76
3D6B 05
                                                                                                                .db
                                                                                                                            VRAM_start+0x28F
                                                                                                                .db
```

6F 76

3D6E 01

VRAM_start+0x26F

.dw

b, #5 ix, #unk_0_6400

sub_0_3EC3 a, (unk_0_6060)

; fireball character data

1d ld

call ld and

3EB7 C8

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 28/11/2013, 10:46:00 PM
3EB8 FE 01
                                                                 #1
                                                    ср
3EBA C8
                                                    ret
3EBB FE 03
3EBD 3E 03
3EBF D8
                                                                 #3
                                                                a, #3
C
                                                    ret
3EC2 C9
3EC2 3EC2
                                                                 a, #7
                                                    1d
                                                    ret
                           ; End of function sub_0_3E88
3EC3
3EC3
3EC3
3EC3
                                                  SUBROUTINE
3EC3 DD CB 00 46 3EC3 3EC7 CA FA 3E
                           sub_0_3EC3:
                                                                                                                                 ; CODE XREF: sub_0_3E88+1F\uparrowp ; sub_0_3E88+28\uparrowp ...
                                                                 0, 0(ix)
Z, loc_0_3EFA
                                                    bit
                                                    jp
ld
3ECA 79
3ECB DD 96 05
3ECE D2 D3 3E
                                                    sub
                                                                 NC, loc_0_3ED3
                                                    jр
3ED1 ED 44
                                                    neg
3ED1 ED 44
3ED3
3ED3
3ED3
3ED4
3ED5 DA DE 3E
3ED8 DD 96 0A
3EDB D2 FA 3E
3EDE
                           loc_0_3ED3:
                                                                                                                                 ; CODE XREF: sub_0_3EC3+B<sup>†</sup> j
                                                    inc
                                                                 а
1
                                                    sub
                                                                 C, loc_0_3EDE
0xA(ix)
                                                    jp
sub
                                                                 NC, loc 0 3EFA
                                                    jр
SEDE
3EDE
3EDE FD 7E 03
3EE1 DD 96 03
                           loc_0_3EDE:
                                                                                                                                 ; CODE XREF: sub_0_3EC3+12<sup>†</sup>j
                                                                a, 3(iy)
3(ix)
                                                    ld
                                                    sub
3EE4 D2 E9 3E
3EE7 ED 44
3EE9
                                                    jp
neg
                                                                 NC, loc_0_3EE9
                                                                                                                                 ; CODE XREF: sub 0 3EC3+211i
                           loc 0 3EE9:
3EE9
3EE9 94 3EEA DA F3 3E 3EEA DA F3 3E 3EEA 3EF3 3EF3 3A 60 60 3EF6 3C
                                                    sub
                                                    jp
sub
                                                                    , loc_0_3EF3
                                                                 NC, loc_0_3EFA
                                                    jр
                           loc_0_3EF3:
                                                                                                                                 ; CODE XREF: sub_0_3EC3+27 j
                                                                 a, (unk 0 6060)
                                                    ld
3EF6 3C
3EF7 32 60 60
3EFA
                                                    inc
                                                    ld
                                                                 (unk_0_6060), a
3EFA
                           loc 0 3EFA:
                                                                                                                                 ; CODE XREF: sub_0_3EC3+4<sup>†</sup>j
; sub_0_3EC3+18<sup>†</sup>j ...
3EFA DD 19
3EFA DD 19
3EFA
3EFC 10 C5
3EFE C9
                                                    add
                                                                 ix, de
sub_0_3EC3
                                                    djnz
                                                    ret
3EFE
3EFE
                           ; End of function sub_0_3EC3
3EFE
3EFF 00 5C 76 49+byte_0_3EFF:
3F09 7D 77 1E 19+byte_0_3F09:
3F09 1E 24 15 1E+
3F09 14 1F 10 1F+
                                                     .db 0, 0x5C, 0x76, 0x49, 0x4A, 1, 9, 8, 1, 0x3F; DATA XREF: 0000:3687↑o.db 0x7D, 0x77, 0x1E, 0x19, 0x1E, 0x24, 0x15, 0x1E, 0x14; DATA XREF: 0000:3689↑o; sub_0_2441↑o
3F09 14 1F 10 1F+
3F09 16 10 11 1D+
3F09 15 22 19 13+
3F24
3F24
3F24
3F24
3F24 21 AF 74
3F27 11 E0 FF
3F2A 36 9F
3F2C 19
3F2D 36 9E
                                                    .db 0x1F, 0x10, 0x1F, 0x16, 0x10, 0x11, 0x1D, 0x15, 0x22
.db 0x19, 0x13, 0x11, 0x10, 0x19, 0x1E, 0x13, 0x2B, 0x3F
                                                    SUBROUTINE
                           sub 0 3F24:
                                                                                                                                 ; CODE XREF: 0000:081C1p
                                                    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
                                                    ret
                           ; End of function sub_0_3F24
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
                           loc_0_3FA0:
                                                                                                                                 ; CODE XREF: 0000:0CD1<sup>†</sup>j
                                                    call
                                                                 sub_0_3FA6
                                                    jp
                                                                 loc_0_D5F
                                                    SUBROUTINE
3FA6
3FA6
3FA6 3E 02
3FA8 F7
3FA9 06 02
3FAB 21 6C 77
3FAE
3FAE
                           sub_0_3FA6:
                                                                                                                                 ; CODE XREF: 0000:3FA01p
                                                                 a, #2
0x30
                                                                                                                                ; return if level bit not set
                                                    rst
ld
                                                                 b, #2
                                                    ld
                                                                 hl, #VRAM_start+0x36C
                           loc_0_3FAE:
                                                                                                                                ; CODE XREF: sub_0_3FA6+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
3FB9
                           ; End of function sub 0 3FA6
3FB9
3FB9
3FBA 00 00 00 00+
                                                    .db 0, 0, 0, 0, 0, 0
SUBROUTINE
                           sub 0 3FC0:
                                                                                                                                ; CODE XREF: 0000:2285 p
                                                    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\u00e70
                                      no_of_credits:
                                                                                                                                                                                     ; 0000:073F1r ...
                                                                          .ds 1
6002 ??
6003 ??
6004 ??
6005 ??
6005 ??
6007 ??
6008 ??
6009*??
                                     unk_0_6003:
                                                                          .ds
                                                                                                                                                                                     ; DATA XREF: sub_0_17B+5\uparrow o
                                                                           .ds
                                                                                                                                                                                     ; DATA XREF: 0000:00C6 r
; sub_0_17B+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
                                                                                                                                                                                     ; 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
                                                                                                                                                                                        DATA XREF: sub_0_17B+27\dagger o
DATA XREF: 0000:0087\dagger r
0000:099F\dagger r ...
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 : dpdete_sounds|0
/ stop_sound+6|0 ...
/ DATA XREF: sub_0_laC3+E9|0
/ DATA 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
unk_0_6088: .ds 1
                                                                                                                                                                                                                                                                    DATA XREF: update_sounds+2E100000:12A81w
  6088
                                                                                                                                                                                                                                                                     DATA XREF: 0000:067A w
0000:0CCO w ...
DATA XREF: 0000:0ADB o
  6089 ??
6089
                                                      unk_0_6089:
  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
  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\office...

DATA XREF: current_player_score_DE+8\office
zero_score_or_high_score+D\office...

DATA XREF: add_bonus_and_update_high_score+37\office
or bara xref: add_bonus_and_update_high_score+37\office.
  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: 0000:36751o
                                                                                                                                                                                                                                                                      2nd
DATA XREF: 0000:367710
                                                                                                                                                                                                                                                                      3rd
                                                                                                                                                                                                                                                                      DATA XREF: 0000:36791o
                                                                                                                                                                                                                                                                      4th
DATA XREF: 0000:3678†o
                                                                                                                                                                                                                                                                      5th
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; DATA XREF: sub_0_1AC3+54\daggero

; DATA XREF: sub_0_1AC3+E6 w

sub_0_1AC3+1B6fo ...
DATA XREF: sub_0_1AC3+1CEfr
sub_0_1AC3+1EAfr ...
mario_???

DATA XREF: sub_0_1AC3+B0\rangle o sub_0_1F46+F\rangle w ...

; sub_0_1AC3+9D↑o ...

; DATA XREF: 0000:0FA5↑o

unk_0_6206: .ds 1 mario_flipy_sprite_tile:.ds 1

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mario_flipx_colour:.ds 1 unk_0_6209: .ds 1

mario_x_before_jump:.ds 1
mario_y_before_jump:.ds 1

unk_0_620E:

unk_0_620F:

unk_0_6210:

unk_0_6211:

unk_0_6212: unk_0_6213: unk_0_6214:

mario_climbing: mario_jumping:

6207 6208 6209

6208 ?? 6209 ?? 620A ?? 620B ?? 620C ?? 620D ?? 620E ?? 620F 620F 620F 6210 ?? 6210 ?? 6211 ?? 6212 ?? 6213 ??

6211 ?? 6212 ?? 6213 ?? 6214 ?? 6215 ?? 6216 ??

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Page: 89
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6217
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6217 ??
6218 ??
6219 ??
621A ??
621B ??
621C ??
621C ??
621E ??
621E ??
621E ??
6221 ??
                                                                                                                              unk_0_6218:
unk_0_6219:
unk_0_621A:
                                                                                                                                                                                                                                                          .ds
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; DATA XREF: sub_0_1AC3+5D\u00e7o
; sub_0_1AC3+2B3\u00e7r ...
                                                                                                                                                                                                                                                       .ds 1
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                                                                                                                           unk_0_621C:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; sub_0_1AC3+2BD↑r
                                                                                                                                                                                                                                                       .ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; DATA XREF: sub_0_1AC3+7 r; sub_0_1AC3+92 r) ...
                                                                                                                           unk_0_621E:
                                                                                                                                                                                                                                                       .ds 1
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unk_0_6220:
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                                                                                                                           level_type:
                                                                                                                           lives_left:
                                                                                                                                                                                                                                                     .ds 1
                                                                                                                           level:
                                                                                                                                                                                                                                                    .ds 1
                                                                                                                                seq_data:
                                                                                                                             unk_0_622C:
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                                                                                                                                                                                                                                                     .ds 1
                                                                                                                           awarded_bonus_life:.ds 1 unk_0_622E: .ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; DATA XREF: 0000:0C05\r; 0000:0C0E\r\ ...
622F ??
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                                                                                                                             unk_0_6280:
                                                                                                                                                                                                                                                       .ds
   6281 ??
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6282 ??
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                                unk_0_6288:
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; sub_0_1E57+29\u00f3r
                                unk_0_6290:
6291 ??
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                                unk_0_6291:
unk_0_6292:
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                                unk_0_62A0:
                                                                                                                                                             ; DATA XREF: 0000:16BC\u00e9w
                                                                                                                                                             ; 0000:16D2\frac{1}{W} ...
; DATA XREF: sub_0_2602+14\frac{1}{2}0
62A0
62A1 ??
62A2 ??
62A3 ??
                                unk_0_62A1:
                                                                 .ds 1
                                                                .ds
                                unk_0_62A3:
                                                                                                                                                             ; DATA XREF: sub_0_2523+2E r
                                                                .ds
62A3
62A4 ??
62A6 ??
62A6 ??
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62A9 ??
62AB ??
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62AE ??
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DATA XREF: sub_0_2523+39↑r
sub_0_2679+14↑0
DATA XREF: sub_0_27DA↑0
                                 unk_0_62A5:
                                                                .ds
                                unk_0_62A6:
                                                                .ds 1
                                unk_0_62A7:
unk_0_62A8:
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                                unk_0_62AC:
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                                unk_0_62AF:
62AF
62B0 ??
62B0
62B1 ??
                                                                                                                                                                DATA XREF: 0000:063A1r
                                unk_0_62B0:
                                                                .ds 1
                                                                                                                                                               0000:0F8Efo ...
DATA XREF: sub_0_2C03+9fr
                                unk_0_62B1:
                                                               .ds 1
                                                                                                                                                             ; sub_0_2C8F+4B1o ..
unk_0_62B2:
unk_0_62B3:
unk_0_62B4:
                                                                .ds 1
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.ds
                                                                                                                                                             ; DATA XREF: sub_0_2FCB+310
                                                                .ds
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                                unk_0_62B8:
unk_0_62B9:
unk_0_62BA:
                                                                                                                                                             ; DATA XREF: sub_0_3A2+9↑o
                                                                 .ds
                                                                                                                                                             ; DATA XREF: sub_0_3A2+2F↑o
; sub_0_3A2+3E↑w
                                                                .ds
                                                                62EC ??
62ED ??
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unk_0_6350: unk_0_6351: unk_0_6352: unk_0_6353: unk_0_6354:

; DATA XREF: 0000:06351r; 0000:06AC10

unk_0_63AD: unk 0 63AF:

unk_0_63B0: unk_0_63B1: unk_0_63B2:

unk_0_63B3:

unk_0_63B4: unk_0_63B5:

unk_0_63B7: unk_0_63B8:

unk 0 63B9:

unk_0_63C0:

unk_0_63C2:

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63B0 ??
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63B9 63BA

63BB 63BC

63BD ??

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63BE ?? 63BF ?? 63CO ??

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 unk_0_6407:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .ds
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; DATA XREF: 0000:1166[†]o

; DATA XREF: 0000:1151\u00e90

; DATA XREF: 0000:115D o

unk 0 64A0:

unk_0_64A3:

unk_0_64A7:

.ds

; DATA XREF: 0000:1096\u00f10 o ; 0000:10CF\u00f10 ...

unk_0_6600:

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                                                                                                                                                                                                                                               unk_0_6687:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; DATA XREF: sub_0_11A6+C\u00f10
                                                                                                                         unk_0_6690:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; DATA XREF: sub 0 2ED4+15 o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; DATA XREF: sub_0_3A2+1A\u00e1o o ; sub_0_11FA\u00e1o ...
                                                                                                                         unk_0_66A0:
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DATA XREF: 0000:0139 o clear_tiles_and_sprites+11 o ...
0- 1 = pauline
2-11 = kong
                                           0x180
                                                                                                 12-
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19 = mario
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| File: E:\Projects\pace\pacedev | .net\sw\re |
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| 6AA5 ?? | .ds 1 |
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| 6AA7 ?? | .ds 1 |
| 6AA8 ?? 6AA9 ?? | .ds 1 .ds 1 |
| 6AAA ?? | .ds 1 |
| 6AAB ?? | .ds 1 |
| 6AAC ?? | .ds 1 |
| 6AAD ?? 6AAE ?? | .ds 1 .ds 1 |
| 6AAF ?? | .ds 1 |
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| 6ABC ?? 6ABD ?? | .ds 1 .ds 1 |
| 6ABE ?? | .ds 1 |
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| 6AE1 ?? | .ds 1 |
| 6AE2 ?? 6AE3 ?? | .ds 1 .ds 1 |
| 6AE4 ?? | .ds 1 |
| 6AE5 ?? | .ds 1 |
| 6AE6 ?? 6AE7 ?? | .ds 1 .ds 1 |
| 6AE8 ?? | .ds 1 |
| 6AE9 ?? | .ds 1 |
| 6AEA ?? | .ds 1 |
| 6AEB ?? 6AEC ?? | .ds 1 |
| 6AED ?? | .ds 1 |
| 6AEE ?? | .ds 1 |
| 6AEF ?? 6AFO ?? | .ds 1 |
| 6AF1 ?? | .ds 1 |
| 6AF2 ?? | .ds 1 |
| 6AF3 ?? | .ds 1 |
| 6AF4 ?? 6AF5 ?? | .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 |
| 6AFF ?? | .ds 1 |
| 6B00 ?? | .ds 1 |
| 6801 ?? | .ds 1 |
| 6B02 ?? 6B03 ?? | .ds 1 .ds 1 |
| 6B04 ?? | .ds 1 |
| 6B05 ?? | .ds 1 |
| 6806 ?? | .ds 1 |
| 6B07 ?? 6B08 ?? | .ds 1 .ds 1 |
| 6B09 ?? | .ds 1 |
| 6B0A ?? | .ds 1 |
| 6B0B ?? 6B0C ?? | .ds 1 .ds 1 |
| 6B0D ?? | .ds 1 |
| 6B0E ?? | .ds 1 |
| 6B0F ?? | .ds 1 |
| 6B10 ?? 6B11 ?? | .ds 1 |
| 6B12 ?? | .ds 1 |
| 6B13 ?? | .ds 1 |
| 6B14 ?? 6B15 ?? | .ds 1 .ds 1 |
| 6B16 ?? | .ds 1 |
| 6B17 ?? | .ds 1 |
| 6B18 ?? | .ds 1 |
| | |

; end of 'RAM'

```
6BFF
                                                                                                                                                                ; DATA XREF: 0000:013D1o
                                                                                                                                                                   DATA XREF: 0000:013Dfo
0000:0276fo
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
                                                                                                                                                                ; DATA XREF: 0000:0285\u00e10
                                                                                                                                                                ; clear tiles and sprites o ...
                                                                                                                                                                ; DATA XREF: 0000:0072 r ; update_sounds+3 o ...
                                                                                                                                                               ; DATA XREF: 0000:01E4\dagger w ; 0000:02AF\dagger w ...
                                                                                                                                                               ; DATA XREF: 0000:02A8\dagger w ; 0000:0779\dagger o ...
 7D86 ?? ?? parette_pank.
7D86
7D88 ?? ?? ?? ??+
7D88 ?? ?? ?? ??+; end of 'IO'
7D88 ?? ?? ?? ??+
7D88 ?? ?? ?? ??+; end of file
                                                                  .ds 0x78
```