```
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
0014 DB
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
                                                                sp
                                                                                                                              ; discard return address
                                                                sp
                                                   ret
                           ; End of function return_if_mario_not_alive
0018
0018
0018
                           ; SUBROUTINE
                                                                                                                              ; CODE XREF: return_NOT_16bit_timeout+4\midj ; display_1UP+10\midp ...
                          return NOT 8bit timeout:
0018 21 09 60
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
002D
0030
0030
0030
0030
0030
0030
18 12
                                                  SUBROUTINE
                                                                                                                              ; 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 17/12/2013, 12:13:51 AM
0038
0038
0038
0038 11 04 00
0038
                                                                                                                                               CODE XREF: animate_kong_and_pauline+F\p animate_kong_and_pauline+65\p ... every 4th byte loop 10 times
                             add_c_sprite_register_x10:
003B 06 0A
003D
003D
003D 79
                                                                       b, #10
                                                         ld
                                                                                                                                            ; CODE XREF: sub_0_30+11|j; 0000:0D9A|p ...
                             add_c_sprite_register_xB:
003D
003E 86
003F 77
0040 19
                                                         ld
                                                                       a, (hl)
(hl), a
hl, de
                                                         add
ld
add
                                                                                                                                            ; (HL)+=C
; next byte
0041 10
0043 C9
0044
0044
        10 FA
                                                         dinz
                                                                       add_c_sprite_register_xB
                                                                                                                                             ; loop
0044
0044 21 27 62
0047 46
                             return_if_level_bit_not_set:
    ld          hl, #level_type
    ld          b, (hl)
                                                                                                                                            ; CODE XREF: sub_0_301j
                                                                                                                                            ; get level type
0048
0048
0048
0049
                              loc_0_48:
                                                                                                                                             ; CODE XREF: sub_0_30+19|j
        0F
10 FD
                                                                                                                                            ; get bit of A for level
; bit set, return
; discard return address
                                                                       loc 0 48
                                                         djnz
004B D8
                                                         ret
004E E1
004D C9
004D
                                                         pop
ret
                                                                       hl
                              ; End of function sub_0_30
004D
004E
004E
004E
                              ; SUBROUTINE
004E
004E
004E 11 08 69
004E
                                                                                                                                               CODE XREF: animate_kong_and_pauline+4D|p animate_kong_and_pauline+77|p ... ptr sprite #2
                              copy_sprites_2_11_data:
                                                         1d
                                                                       de, #soft sprite ram+8
004E
0051 01 28 00
0054 ED B0
0056 C9
                                                                                                                                               10 4-byte sprites to copy
copy 40 bytes of sprite data
                                                         1d
                                                                       bc, #40
                                                         ldir
                                                         ret
                              ; End of function copy_sprites_2_11_data
0056
0056
0056
0057
0057
0057
0057
0057
0057 3A 18 60
                                                        SUBROUTINE
                                                                                                                                            ; CODE XREF: 0000:00B9|p; sub_0_2523+22|p ...
                                                         14
                                                                            (random no)
005A 21 1A 60
005D 86
                                                         ld
add
                                                                       hl, #gen_purpose_timer
a, (hl)
005E
005E
005E
005E 21 19 60
0061 86
0062 32 18 60
0065 C9
0065
                              loc_0_5E:
                                                                       hl, #random_no+1
a, (hl)
                                                         add
                                                                       a, (hl)
(random_no), a
                                                         1d
                              ; End of function rand
0065
0066
0066
0066 F5
0067 C5
0068 D5
0069 E5
                             nmi:
                                                         push
                                                         push
push
push
                                                                       bc
                                                                       de
hl
006A DD E5
006C FD E5
                                                                       ix
iy
                                                         push
                                                         push
xor
ld
006C FD E5
006E AF
006F 32 84 7D
0072 3A 00 7D
0075 E6 01
0077 C2 00 40
007A 21 38 01
007D CD 41 01
0080 3A 07 60
0083 A7
0084 C2 B5 00
0087 3A 26 60
                                                                       a (nmi_mask),
                                                                       ..mu1_mask), a
a, (in2_snd_latch)
#1
                                                                                                                                             ; disable_nmi
                                                         ld
                                                                                                                                                IN2
                                                         and
jp
ld
                                                                                                                                             ; hit 0 set?
                                                                       NZ, 0x4000
                                                                                                                                             ; yes, boom! (not valid code)
                                                                       hl, #dma_reg_tbl
                                                                       dma_sprite_data_to_hw
a, (attract_mode_flag)
                                                         call
                                                                                                                                            ; update sprites
                                                         ld
and
                                                                                                                                            ; in attract mode?
; yes, skip reading inputs
                                                                       a
NZ, loc_0_B5
                                                         jp
ld
and
0084 C2 B3 00
0087 3A 26 60
008A A7
008B C2 98 00
                                                                       a, (upright)
                                                                       NZ, loc_0_98
                                                         jp
ld
008E 3A 0E 60
0091 A7
0092 3A 80 7C
0095 C2 9B 00
                                                                       a, (current_player_E)
                                                                                                                                            ; player 2?
; (cocktail)
                                                                                                                                            ; (cocktail); yes, skip
                                                                       a, (in1)
NZ, loc_0_9B
                                                          ld
                                                         qŗ
0098
                             loc_0_98:
                                                                                                                                            ; CODE XREF: 0000:008B<sup>†</sup>j
; (upright)
                                                                       a, (in0)
009B
009B
                                                                                                                                             ; CODE XREF: 0000:009511
                             loc 0 9B:
009B 47
009C E6 0F
009E 4F
                                                         ld
and
ld
                                                                       b, a
#0xF
                                                                                                                                                store INO/1
joystick only
                                                                                                                                                store
009E 4F
009F 3A 11 60
00A2 2F
00A3 A0
00A4 E6 10
                                                         1d
                                                                       a, (last_raw_in)
                                                                                                                                               last raw input
negate
                                                         cpl
and
and
                                                                                                                                                rising-edge detect
                                                                       #0x10
                                                                                                                                               button
00A4 E6 10

00A6 17

00A7 17

00A8 17

00A9 B1

00AA 60

00AB 6F

00AC 22 10 60

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

; store

; reset input?

; CODE XREF: 0000:008414

; IRQ resume address

; general purpose timer tick
; randomise

(controller_in), hl

hl, #gen_purpose_timer
(hl)

check_coin_inserted update_sounds

a, (nmi_sequencer)

hl, #nmi_exit

a, b

rand

h1

6, a NZ, RESET

ld

bit jp

ld dec call

call call ld

push ld

loc 0 B5:

00B0 CB 77 00B2 C2 00 00 00B5

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

00C6 3A 05 60

00B5

00C5 E5

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
00C9 EF
                                                          rst
00C9
00CA C3 01
00CC 3C 07
00CE B2 08
                                                           .dw init_machine_settings
.dw chk_credits_and_vector_on_attrac
.dw vector_on_credit_sequencer
                                                                                                                                               ; Jump table (nmi sequencer)
00D0 FE 06
                                                           .dw vector_on_ingame_sequencer
00D2
00D2
00D2
                                                                                                                                               ; DATA XREF: 0000:00C210
                              nmi_exit:
00D2 FD E1
00D4 DD E1
00D6 E1
00D7 D1
                                                                        iy
ix
hl
de
                                                          qoq
                                                          pop
                                                          pop
00D8 C1
00D9 3E 01
00DB 32 84 7D
00DE F1
                                                          pop
ld
ld
                                                                        bc
a, #1
(nmi_mask), a
                                                                                                                                                ; enable_nmi
                                                          pop
ret
00DE F1
00DF C9
00E0
00E0
                                                          SUBROUTINE
00E0

00E0

00E0

00E0

00E0

00E0 21 80 60

00E3 11 00 7D

00E6 3A 07 60

00E9 A7

00EA C0

00EB 06 08

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

00F6 1C

00F7 2C

00F8 10 F3

00FA 21 8B 60

00FD 7E

00FF A7

00FF C2 08 01

0102 2D

0103 2D

0104 7E

0105 C3 0B 01

0108
                                                          inc
                                                                                                                                                  next timer
loop for 8 sounds
                                                          djnz
                                                                         loc_0_ED
                                                                        hl, #unk_0_608B
a, (hl)
                                                          ld
ld
                                                          and
jp
dec
                                                                        NZ, loc_0_108
                                                          ld
                                                                        a, (hl)
set_bg_sound_music
                                                          jр
0108
0108
0108
0108
0108 35
                                                                                                                                                ; CODE XREF: update_sounds+1F<sup>†</sup> j
                              loc_0_108:
                                                                         (hl)
                                                          dec
0109 2D
010A 7E
010B
010B
                                                          dec
                                                          ld
                                                                        a, (hl)
                                                                                                                                               ; get background sound/music
                                                                                                                                                ; CODE XREF: update_sounds+251j
                              set_bg_sound_music:
010B 010B 32 00 7C 010E 21 88 60 0111 AF 0112 BE 0113 CA 18 01 0116 35 0118 0118 0118 32 80 7D 011B C9 011B C9 011B
                                                          1d
                                                                        (in0), a
hl, #music_something
                                                                                                                                                ; background sound/music select
                                                          ld
xor
                                                                         a
(hl)
                                                                        Z, loc_0_118
(hl)
                                                          ср
                                                                                                                                                ; any music to play?
                                                          jp
dec
                                                                                                                                               ; no, skip
; ???
; flag music start
                                                                                                                                               ; CODE XREF: update_sounds+33↑j; digital sound - dead
                              loc_0_118:
                                                          ld
ret
                                                                        (dsw_audio_irq), a
; End of function update_sounds
                                                        SUBROUTINE
                                                                                                                                               ; CODE XREF: check_coin_inserted+1A\protect\operatorname{hp} ; 0000:02B5\protect\operatorname{hp} ...
                              stop_sound:
011C 06 08
011C
011E AF
011F 21 00 7D
0122 11 80 60
0125
0125
0125 77
                                                          1d
                                                                        b, #8
                                                          xor
ld
                                                                        hl, #in2_snd_latch
                                                                                                                                                ; sound latch
                                                          ld
                                                                        de, #digital_snd_tmr_walk
                                                                                                                                                ; timers
                                                                                                                                               ; CODE XREF: stop_sound+D|;
; kill latch
; kill timer
                              loc_0_125:
                                                                         (hl), a (de), a
                                                          ld
0125 77
0126 12
0127 2C
0128 1C
0129 10 FA
012B 06 04
012D
012D 012D 12
                                                          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

```
01D9 32 28 62
01DC CD B8 06
01DF CD 07 02
01E2 3E 01
01E4 32 82 7D
01E7 32 05 60
01EA 32 27 62
01ED AF
01EF 23 0A 60
01F1 CD 53 0A 60
01F1 CD 9F 30
01FA 11 02 09
                                                               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
01FA 11
01FD CD
0200 11
0203 CD
                                                               call
ld
                                                                                                                                                           ; display_score_or_high_score
                                                               call
                                                                              queue_fg_vector_fn
                                                                                                                                                           ; display_score_or_high_score
               9F 30
0206
0207
0207
         C9
                                 ; 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
ld
                                                                          b, #4
hl, #SPRAM_start
                                                                                                                                                 ; start of sprite RAM
 0279
0279 4F
027A
027A
                               loc_0_279:
                                                                                                                                                 ; CODE XREF: 0000:027F-j
                                                            ld
                                                                                                                                                 ; CODE XREF: 0000:027D|j
                                loc 0 27A:
 027A

027A

027B

027B

027C

0D

027D

0D

027D

0D

027F

10 F8

0281

06 04

0283

3E 10

0285

21 00 74

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

028C 0D

028D 20 FB

028F 10 F7

0291 21 C0 60

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

```
0296 3E FF
                                                                          a, #0xFF
                                                                                                                                                   ; fill byte
                                                           ld
0298
0298
0298
0299
                                                                                                                                                   ; CODE XREF: 0000:029A|j
; set to $FF
; next location
                             loc_0_298:
                                                                          (hl), a
0299 23
029A 10 FC
029C 3E CO
029E 32 BO 60
02A1 32 B1 60
02A4 AF
02A5 32 83 7D
02A8 32 86 7D
02AB 32 87 7D
                                                                          noc_0_298
a, #0xC0; 'L'
(fg_fn_queue_tail), a
(fg_fn_queue_head), a
                                                            djnz
                                                                                                                                                   ; set 64 bytes
                                                            ld
ld
ld
                                                                                                                                                  ; init queue tail
; init queue head
                                                            xor
                                                                          (spritebank), a
(palette_bank), a
(palette_bank+1), a
                                                            ld
ld
                                                                                                                                                  ; b0=0
; b1=0
                                                            ld
02AE 3C
02AF 3C 82 7D
02BZ 31 00 6C
02B5 CD 1C 01
                                                                          a (flipscreen), a
                                                            ld
ld
                                                                          sp, #0x6C00
stop_sound
                                                            call
02B8 3E 01
02BA 32 84 7D
02BD
                                                            1d
                                                                          a, #1 (nmi_mask), a
                                                                                                                                                   ; enable interrupts
                                                                                                                                                   ; CODE XREF: 0000:02D8-i
02BD
                              main loop:
                                                                                                                                                   ; 0000:02E1|j;
; DATA XREF: ...;
; msb of queue
; ptr head of queue
02BD 26 60
02BD
02BD
                                                            ld
02BD 02BF 3A B1 60 02C2 6F 02C3 7E 02C4 87 02C5 30 1C 02C7 CD 15 03 02CA CD 50 03 02CD 21 19 60 02DO 24
                                                                          a, (fg_fn_queue_head)
1, a
a, (hl)
                                                            ld
                                                            ld
ld
                                                                                                                                                   ; get queue entry
                                                                                                                                                   ; empty?
; no, skip
                                                            add
                                                                          a, a
NC, process_fg_fn_queue
flash_1UP_or_2UP
check_and_award_bonus
hl, #random_no+1
(hl)
                                                            jr
call
call
ld
                                                                                                                                                   ; random LSB
02D0 34
02D1 21 83 63
02D4 3A 1A 60
02D7 BE
                                                            inc
ld
ld
                                                                                                                                                   ; INC
                                                                          hl, #unk_0_6383
                                                                                (gen_purpose_timer)
                                                                          a, (
(hl)
                                                            cp
jr
ld
call
                                                                                                                                                  ; same?
; yes, loop
; generate LSB from timer
02D8 28 E3
02DA 77
02DB CD 7F 03
                                                                          Z, main_loop
(hl), a
difficulty_timer_tick
02DE CD A2 03
                                                                                                                                                  ; do something with a sprite
                                                            call
                                                                          sub_0_3A2
02E1 18 DA
02E3
02E3
                                                                          main_loop
02E3
02E3
02E3 E6 1F
02E5 5F
02E6 16 00
02E8 36 FF
                                                                                                                                                  ; CODE XREF: 0000:02C51i
                              process_fg_fn_queue:
                                                            and
ld
                                                                          #0x1F
                                                                                                                                                   ; E=param1 (vector entry
                                                                          e, a
d, #0
                                                                                                                                                   ; msb of vector table offset
; wipe param1
                                                            ld
                                                            ld
                                                                           (h1), #0xFF
                                                                         1
c, (hl)
02EA
02EB
                                                            inc
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

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0350

0350

0350

0350

0350

0350

0355

0354

00

0355

21

83

83

83

00

60

0358

83

00

0358

83

00

0358

83

00

0358

83

00

0358

21

0361

0361

0361

0361

0361

0362

0362

0362

0364

037

0362

0363

0363

0364

0366

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036
                                                                           SUBROUTINE
                                                check_and_award_bonus:
                                                                                                                                                                                                                                 ; CODE XREF: 0000:02CATp
                                                                                           ld
and
                                                                                                                  a, (awarded_bonus_life)
                                                                                                                                                                                                                                  ; already got bonus life?
                                                                                            ret
                                                                                                                  NZ
                                                                                                                                                                                                                                  ; ves. return
                                                                                            1d
                                                                                                                  hl, #p1_score+1
                                                                                            ld
                                                                                                                  a, (current_player_D)
                                                                                                                  a
Z, loc_0_361
                                                                                                                                                                                                                                 ; player 1?
; yes, skip
                                                                                            and
                                                                                            ir
                                                                                            ĭd
                                                                                                                  hl, #p2_score+1
                                                                                                                                                                                                                                     CODE XREF: check_and_award_bonus+C1j get hundreds from score only thousands
                                               loc 0 361:
                                                                                                                  a, (hl)
#0xF0; '-'
                                                                                            ld
                                                                                            and
ld
                                                                                                                  b, a
hl
                                                                                                                                                                                                                                      save
next score byte
                                                                                            inc
0365 23
0366 7E
0367 E6 0F
0369 B0
036A 0F
036B 0F
036C 0F
036C 0F
                                                                                           ld
and
                                                                                                                          (h1)
                                                                                                                                                                                                                                     get tens of thousands
only tens of thousands
B = thousands (and tens of)
                                                                                            or
                                                                                            rrca
                                                                                           rrca
rrca
                                                                                                                                                                                                                                 ; swap nibbles
                                                                                            rrca
036D 0F
036E 21 21 60
0371 BE
0372 D8
0373 3E 01
0375 32 2D 62
0378 21 28 62
0378 34
037C C3 B8 06
                                                                                                                 hl, #bonus_setting (hl) C
                                                                                            ld
                                                                                            cp
ret
                                                                                                                                                                                                                                 ; reached bonus score?
; no, return
                                                                                            ld
                                                                                                                 (awarded_bonus_life), a
hl, #lives_left
(hl)
                                                                                            ld
                                                                                                                                                                                                                                 ; flag that we've got the bonus
                                                                                            ld
                                                                                                                                                                                                                                  ; extra life
                                                                                                                  display_lives_and_level
                                                jp
; End of function check;
                                                                                                                 and award bonus
037C
037F
037F
037F
037F
037F
                                                                                       SUBROUTINE
                                               difficulty_timer_tick:
                                                                                                                                                                                                                                 ; CODE XREF: 0000:02DB1p
037F 21 84 63
0382 7E
0383 34
0384 A7
                                                                                                                 hl, #unk_0_6384
a, (hl)
(hl)
                                                                                            1d
                                                                                            ld
                                                                                            inc
0384 A7
0385 C0
0386 21 81
0389 7E
038B 47
038B 34
038C E6 07
038F 78
0390 0F
0391 0F
0392 0F
                                                                                            ret
ld
ld
                                                                                                                 hl, #unk_0_6381
a, (hl)
b, a
                     81 63
                                                                                            ld
                                                                                                                   b, a (hl)
                                                                                            inc
and
ret
                                                                                            1d
                                                                                                                  a, b
                                                                                           rrca
rrca
                                                                                            rrca
                                                                                                                 b, a
a, (level)
a, b
0393 47
0394 3A 29 62
0397 80
0398 FE 05
                                                                                            ld
                                                                                                                 a,
a,
#5
                                                                                            ld
add
                                                                                            ср
                                                                                                                 C, loc_0_39E
a, #5
039A 38 02
039C 3E 05
039E
039E
                                                                                                                                                                                                                                ; CODE XREF: difficulty timer tick+1B<sup>†</sup> i
                                               loc 0 39E:
039E 32 80 63
03A1 C9
03A1
03A1
                                                                                           1d
                                                                                                                  (unk_0_6380), a
                                               ret
; End of function difficulty_timer_tick
SUBROUTINE
                                                sub_0_3A2:
                                                                                                                                                                                                                                 ; CODE XREF: 0000:02DETp
                                                                                                                  a, #3
0x30
0x10
                                                                                                                                                                                                                                 ; return if level bit not set ; return if mario not alive
                                                                                            rst
rst
                                                                                           ld
rrca
                                                                                                                  a, (unk_0_6350)
                                                                                            ret
03AB 21 B8 62
03AE 35
03AF C0
03BO 36 04
                                                                                           ld
dec
ret
ld
                                                                                                                 hl, #unk_0_62B8 (hl)
             CO
36 04
3A B9 62
0F
                                                                                                                  NZ (hl), #4
03B0 30
03B2 3A
03B5 0F
03B6 D0
03B7 21
                                                                                           ld
rrca
                                                                                                                  a, (unk_0_62B9)
                                                                                            ret
ld
             21 29 6A
06 40
                                                                                                                  hl, #soft_sprite_ram+0x129
                                                                                                                                                                                                                              ; sprite #173, flipv & code
03BA 21 29 6A
03BA 06 40
03BC DD 21 A0 66
03C0 0F
03C1 D2 E4 03
03C4 DD 36 09 02
03C8 DD 36 0A 02
                                                                                                                 b, #<mark>0x40</mark>; '@'
ix, #unk_0_66A0
                                                                                           ld
ld
                                                                                            rrca
                                                                                            jp
ld
ld
                                                                                                                 NC, loc_0_3E4
                                                                                                                   9(ix), #2
0xA(ix), #2
 03CC 04
03CD 04
                                                                                            inc
                                                                                                                  b
                                                                                                                  b
             CD F2 03
21 BA 62
35
                                                                                                                  sub_0_3F2
h1, #unk_0_62BA
(h1)
                                                                                            call
 03D4
                                                                                            dec
 03D5 C0
03D6 3E 01
03D8 32 B9 62
                                                                                            ret
                                                                                                                   a, #1
(unk_0_62B9), a
                                                                                            ld
 03DB 32 A0 63
                                                                                            1d
                                                                                                                   (unk 0 63A0), a
 03DE
```

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

0450

0450 3A 27 62

0453 0F

0454 D2 78 04

0457 0F

0458 DA 86 04

045B 21 0B 69

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

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0489 4F
                                                     ld
0489 4F
048A 11 20 00
048D 3A 27 62
0490 FE 04
0492 CA BE 04
0495 79
                                                                 de, #0x20 ; ' '
a, (level_type)
#4
                                                     ld
                                                     ld
                                                                                                                                  ; rivets?
; yes, skip
; kong_thrash_tmr
                                                     ср
                                                                  Z, display_help_rivets_level
                                                     jp
ld
                                                                  a,
0496 A7
0497 CA A1 04
049A 3E EF
                                                     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+9C<sup>†</sup> j ; 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)
                                                                 #0x80; 'C'
NC, display_help_right
a, #0xDF; 'I'
h1, #VRAM_start+0x223
                                                                                                                                  ; mario left/right side of screen?
; right, skip
; "HELP!" to the left
                                                     cp
jp
ld
04D9 3E DF
04DB 21 23 76
04DE CD 14 05
04E1
                                                                                                                                  ; screen pos
; display "HELP!"
                                                     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
                                                     jр
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)
#0x80 ; 'C'
NC, display_pauline_right
                                                     ld
                                                     ср
                                                     αĖ
0511 C3 E1 04
0511
0511
0514
                           jp display_pauline_left; End of function animate_kong_and_pauline
0514
0514
0514
                                  SUBROUTINE
                           display_3_tiles_HL:
                                                                                                                                     CODE XREF: animate_kong_and_pauline+ABfp
0514
                                                                                                                                     animate_kong_and_pauline+C8<sup>†</sup>p ... 3 tiles
0514
0514 06 03
0514
0516
0516
                                                                 b, #3
                                                                                                                                  ; CODE XREF: display_3_tiles_HL+5|j
                           loc 0 516:
0516 77
0517 19
0518 3D
                                                                                                                                  is store tile
is next row/column
is prev tile
is loop for 3 tiles
                                                     14
                                                                 (hl),
hl, de
                                                     add
                                                     dec
        10 FB
                                                     dinz
                                                                  loc 0 516
051B C9
051B
051B
                           ret
; End of function display_3_tiles_HL
051C
051C
051C
                                  SUBROUTINE
051C
                           add_bonus_and_update_high_score:
                                                                                                                                    CODE XREF: 0000:0698 p
051C 4F
051C
                                                                                                                                  ; 0000:06A5|j
; DATA XREF: ...
051C
                                                     ld
051D CF
051E CD 5F 05
                                                     rst
call
                                                                                                                                  ; return if attract mode
```

current_player_score_DE

hl, #bonus_points_tbl

; 3 bytes of score

a b, #3

ld add

add ld

1d ld add and

1d

0521 79 0522 81

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

052C 06 03 052E

```
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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
                         loc_0_52E:
                                                                                                                         CODE XREF: add_bonus_and_update_high_score+18|j
                                                                                                                       ; get score BCD pair
; add bonus BCD pair
; adjust for BCD
; update score BCD pair
052E 1A
                                                ld
052E 1A
052F 8E
0530 27
0531 12
0532 13
0533 23
0534 10 F8
0536 D5
                                                adc
daa
ld
                                                            a, (hl)
                                                            (de), a
                                                inc
                                                            de
hl
                                                                                                                       ; next byte
; loop through score
                                                            loc_0_52E
                                                djnz
                                                push
                                                            de
0537 1B
0538 3A 0D 60
053B CD 6B 05
053E D1
                                                 dec
                                                            de
                                                                                                                       ; ptr score
                                                ld
call
                                                            a, (current_player_D)
display_player_A_score
                                                pop
dec
053F 1B
0540 21 BA 60
0543 06 03
0545
                                                            hl, #high_score+2
b, #3
                                                                                                                       ; MSB ; 3 bytes to compare
                                                ld
                                                ld
0545
0545 1A
0546 BE
0547 D8
0548 C2 50 05
054B 1B
054C 2B
                         loc_0_545:
                                                                                                                       ; CODE XREF: add_bonus_and_update_high_score+31|j
                                                                                                                         get byte from score
less than high score?
yes, return
                                                ld
                                                            a, (de)
(hl)
                                                ср
                                                ret
                                                jp
dec
                                                            NZ, new_high_score
                                                                                                                          greater, we have a high score
                                                                                                                       ; same, check next byte; loop through 3 bytes
054D 10 F6
                                                dinz
                                                            loc 0 545
054D 10 F6
054F C9
0550
0550
0550
0550 CD 5F 05
0553 21 B8 60
                                                                                                                       ; CODE XREF: add_bonus_and_update_high_score+2Cfj
                         new_high_score:
                                                call
ld
                                                            current_player_score_DE
hl, #high_score
0556
0556 1A
0557 77
0558 13
                         update_high_score:
                                                                                                                       ; CODE XREF: add_bonus_and_update_high_score+3E|j
                                                                                                                       ; get score byte
; copy to high score
                                                            a, (de)
(hl), a
                                                ld
                                                inc
                                                            de
0559 23
055A 10 FA
055C C3 DA 05
055C
                                                                                                                       ; next location
; loop through 3 bytes
                                                            h1
                                                             ---
update_high_score
                                                            display_high_score
                                                jр
                         ; End of function add_bonus_and_update_high_score
055C
055F
055F
055F
055F
055F
                                               SUBROUTINE
                         current_player_score_DE:
                                                                                                                         CODE XREF: add_bonus_and_update_high_score+21p
055F 11 B2 60
                                                                                                                       ; add_bonus_and_update_high_score+341p
055F
                                                14
                                                            de, #pl score
0562 3A 0D 60
0565 A7
                                                ld
and
                                                            a, (current_player_D)
                                                                                                                       ; player one?
; yes, return
0566 C8
0567 11 B5 60
056A C9
                                                ret
                                                ld
                                                            de, #p2_score
                                                ret
                         ; End of function current_player_score_DE
056A
056A
056B
056B
056B
                                               SUBROUTINE
056B
056B DD 21 81 77
056B
                                                                                                                         CODE XREF: add_bonus_and_update_high_score+1F^p display_score_or_high_score+11+j
                         display_player_A_score:
                                                ld
                                                            ix, #VRAM start+0x381
056F A7
                                                and
                                                            a
Z, display_score_HL
ix, #VRAM_start+0x121
0570 28 0A
0572 DD 21 21 75
0576 18 04
                                                jr
                                                            display_score_HL
0578
0578
0578
                                                                                                                         CODE XREF: display_score_or_high_score+17|j
                        display_score_at_hs_location:
0578 DD 21 41 76
                                                            ix, #VRAM_start+0x241
                                                ld
                                                                                                                       ; screen position for score
057C
057C
057C EB
                                                                                                                       ; CODE XREF: display_player_A_score+5<sup>†</sup>j; display_player_A_score+B<sup>†</sup>j ...
                         display_score_HL:
                                                            de, hl
de, #0xFFE0
bc, #0x304
057C
057D 11 E0 FF
0580 01 04 03
0583
                                                                                                                       ; column address delta
; 3=6 digits
                                                ld
0583
0583 7E
0583
                                                                                                                       ; CODE XREF: display_player_A_score+25|;
; display_credits+11|;
; get bcd digit pair
                         display_B_bcd_digit_pairs:
                                                ld
                                                            a, (hl)
0584 OF
                                                rrca
0585 OF
0586 OF
0587 OF
                                                rrca
rrca
                                                                                                                      ; shift high nibble
                                                rrca
0588 CD 93 05
                                                call
                                                            display_score_digit
058B 7E
058C CD 93 05
058F 2B
0590 10 F1
                                                ld
call
                                                            a, (hl)
display_score_digit
                                                                                                                      ; low nibble
                                                                                                                       ; next digit pair
; loop through 6 digits
                                                            hl
display_B_bcd_digit_pairs
                                                dec
djnz
0592 C9
0592
0592
                         ret; End of function display_player_A_score
0593
0593
0593
0593
                                SUBROUTINE
0593
0593 E6 OF
0593
                                                                                                                         CODE XREF: display_player_A_score+1D^p display_player_A_score+21^p low nibble only
                         display_score_digit:
                                                and
0595 DD 77 00
                                                1d
                                                            0(ix), a
                                                                                                                         display digit
next column
0598 DD 19
059A C9
                                                add
ret
                                                            ix, de
059A
                         ; End of function display score digit
059A
059B
059B
059B
059B
```

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

CODE XREF: zero_score_or_high_score+24|pDATA XREF: 0000:030910

; zero all scores?

; yes, skip

```
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05A8 21 B5 60
                                                                hl, #p2_score
                                                   ld
05AB
05AB
                          loc_0_5AB:
                                                                                                                               ; CODE XREF: zero_score_or_high_score+A| j
05AB FE 02
05AD C2 B3 05
                                                                NZ, loc_0_5B3
                                                    jp
ld
05B0 21 B8 60
                                                                hl, #high_score
05B3
05B3
05B3 AF
                           loc_0_5B3:
                                                                                                                               ; CODE XREF: zero_score_or_high_score+12†j
                                                    xor
                                                                a
(hl), a
05B3 AF
05B4 77
05B5 23
05B6 77
05B7 23
05B8 77
                                                    1d
                                                    inc
ld
                                                                hl (hl), a
                                                    inc
                                                                hl
                                                    1d
                                                                (hl), a
05B9 F1
05BA C3 C6 05
                                                    pop
jp
                                                                display_score_or_high_score
05BD
05BD
05BD
05BD 3D
05BD 3D
05BB F5
05BF CD 9B 05
05C2 F1
05C3 C8
                                                                                                                               ; CODE XREF: zero_score_or_high_score+2fj
; zero_score_or_high_score+29fj
; next score to zero
                           loc_0_5BD:
                                                   dec
                                                   push
call
                                                                af
zero_score_or_high_score
                                                    pop
ret
                                                                af
Z
                                                                                                                               ; return when done
05C3 C8
05C4 18 F7
05C4
05C6
05C6
05C6
05C6
                           jr loc_0_5BD; End of function zero_score_or_high_score
                                                                                                                               ; zero next score
                                                 SUBROUTINE
05C6
05C6 FE 03
05C6
05C6
                                                                                                                               ; CODE XREF: zero_score_or_high_score+1F<sup>†</sup>j
; display_score_or_high_score+1C<sup>†</sup>p
; DATA XREF: ...
                          display_score_or_high_score:
05C8 CA E0 05
05CB 11 B4 60
05CE A7
                                                    jp
ld
                                                                Z, loc 0 5E0
                                                                de, #pl_score+2
                                                    and
                                                                a
Z, loc_0_5D5
05CF CA D5 05
                                                    jp
ld
05D2 11 B7 60
05D5
05D5
                                                                      #p2_score+2
                           loc 0 5D5:
                                                                                                                               ; CODE XREF: display score or high score+91j
05D5 FE 02
05D7 C2 6B
05DA
                                                    ср
       C2 6B 05
                                                    jp
                                                                NZ, display_player_A_score
05DA
                          display_high_score:
                                                                                                                               ; CODE XREF: add bonus and update high score+401j
05DA 11 BA 60
05DD C3 78 05
05E0
                                                    14
                                                                de, #high score+2
                                                                display_score_at_hs_location
                                                    jр
05E0
05E0
05E0 3D
05E0
                                                                                                                               ; CODE XREF: display_score_or_high_score+2<sup>†</sup>j
; display_score_or_high_score+21<sup>†</sup>j
                           loc_0_5E0:
05E1 E5
                                                   push
call
                                                                af
                                                                ar
display_score_or_high_score
af
Z
05E1 F3
05E2 CD C6 05
05E5 F1
05E6 C8
                                                   pop
ret
05E7 18 F7
05E7
05E7
05E9
                           jr loc_0_5E0 ; End of function display_score_or_high_score
05E9
                                S U B R O U T I N E
05E9
05E9
                                                                                                                               ; CODE XREF: display_credits+2|p
; display_start_1P_2P_get_selectio+18|p
; DATA XREF: ...
05E9
                          print_message_A:
05E9 21 4B 36
05E9
05E9
                                                                hl, #message_table
05EC 87
                                                    add
                                                                <mark>a, a</mark>
af
                                                                                                                               ; convert entry to offset
05EC 87
05ED F5
05EE E6 7F
05F0 5F
05F1 16 00
05F3 19
05F4 5E
05F5 23
                                                   push
and
ld
                                                                #0x7F ;
                                                                                                                               ; mask off 'wipe' bit
                                                                e, a
d, #0
hl, de
e, (hl)
                                                                                                                               ; DE = offset
                                                    1d
                                                    add
ld
                                                                                                                               ; pointer to entry
                                                    inc
05F6 56
05F7 EB
05F8 5E
05F9 23
                                                   ld
ex
ld
                                                                d, (hl)
de, hl
e, (hl)
                                                                                                                               ; DE = entry (word)
                                                                e,
hl
                                                    inc
05FA 56
05FB 23
05FC 01 E0 FF
05FF EB
                                                   ld
inc
ld
                                                                d, (hl)
                                                                                                                               ; DE = screen address to print
; HL = message text
; screen column address inc value
; DE = text, HL = screen address
                                                                bc, #0xFFE0
                                                    ex
                                                                de, hl
0600
0600
0600 1A
0601 FE
                                                                                                                                 CODE XREF: print_message_A+26|j
                           loc_0_600:
                                                                                                                                 get message character
end of message?
                                                    ld
                                                                a, (de)
#0x3F; '?
       FE 3F
                                                    cp
jp
ld
                                                                                                                                  yes, exit
display character on screen
restore original entry index
0603 CA 26 00
0606 77
0607 F1
                                                                Z, pop_hl_ret(hl), a
                                                                af
NC, loc_0_60C
(hl), #0x10
                                                    pop
0607 F1
0608 30 02
060A 36 10
060C
060C F5
060D 13
060E 09
                                                   jr
ld
                                                                                                                                 not wiping, skip
display space character on screen
                                                                                                                                 CODE XREF: print_message_A+1F1j
                           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_1P_2P_get_selectio+1B \mid p 0000:141E \mid p ...

"credit"

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
061B 21 01
                                                                        hl, #no_of_credits
                                                          ld
061B 21 01 60
061E 11 E0 FF
0621 DD 21 BF 74
0625 06 01
0627 C3 83 05
0627
0627
0628
062A
                                                          ld
                                                                        de, #0xFFE0
                                                                                                                                               ; column address delta
                                                          ld
ld
                                                                        ix, #VRAM_start+0xBF
b, #1
display_B_bcd_digit_pairs
                                                                                                                                              ; screen position of credits
; 1=2 digits
                                                          jр
                              ; End of function display_credits
062A

062A

062A A7

062B CA 91 06

062E 3A 8C 63

0631 A7

0632 C2 A8 06

0635 3A B8 63

0638 A7
                                                                                                                                              ; DATA XREF: 0000:0311†o
                              update_bonus_timer:
                                                                       Z, loc_0_691
a, (bonus_timer)
                                                          jp
ld
                                                          and
                                                                                                                                              ; zero?
; no, skip
                                                                        NZ, loc_0_6A8
a, (unk_0_63B8)
                                                          jp
ld
                                                          and
0638 A7
0639 C0
063A 3A B0 62
063D 01 0A 00
                                                          ret
ld
                                                                        NZ
                                                                        a, (unk_0_62B0)
bc, #0xA
                                                          ld
0640
                              loc_0_640:
                                                                                                                                              ; CODE XREF: 0000:0642-j
                                                          sub
                                                          jp
ld
rlca
                                                                        NZ, loc_0_640
                                                                        a, b
                                                          rlca
                                                          rlca
                                                          rlca
rlca
ld
ld
                                                                                                                                              ; set initial bonus timer value
                                                                         (bonus_timer),
                                                                        hl, #bonus_graphic_tiles
de, #VRAM_start+0x65
a, #6
                                                                                                                                              ; screen position for bonus
; 6 columns of tiles to display
                                                          ld
                                                                                                                                               ; CODE XREF: 0000:0664 j
                              loc 0 655:
0655 DD 21 1D 00
0659 01 03 00
065C ED B0
                                                                       ix, #0x1D
bc, #3
                                                                                                                                              column inc
; 3 tiles to display
; display bonus tiles
; next column
                                                          1d
                                                          ld
ldir
065C ED B0
065E DD 19
0660 DD E5
0662 D1
0663 3D
0664 C2 55 06
0667 3A 8C 63
066A
                                                                        ix. de
                                                          add
                                                          push
pop
dec
                                                                        ix
de
                                                                                                                                               ; screen position
                                                                                                                                              ; done?
; no, loop
                                                          jp
ld
                                                                        NZ. loc 0 655
                                                                        a, (bonus_timer)
066A
                             loc 0 66A:
                                                                                                                                              ; CODE XREF: 0000:06B5-1
066A 4F
                                                          ld
066B E6 OF
066D 47
066E 79
                                                          and
ld
                                                                        #0xF
066D 47
066E 79
066F 0F
066F 0F
0670 0F
0671 0F
0673 E6 0F
0673 E 09
0678 3E 03
067A 32 89 06
067B 3E 03
067A 32 89 60
067B 3E 78
067B 3E 78
067B 3E 74
0687 3E 10
0688 9
                                                                                                                                              ; B=low nibble
                                                                        b, a
                                                          1d
                                                                        a, c
                                                          rrca
                                                          rrca
                                                          rrca
and
                                                                                                                                              ; C=high nibble
; skip if more than 9s left
                                                                        NZ, display_bonus_digits
                                                          jp
ld
                                                          ld
ld
ld
ld
                                                                        a, #3
(bg_music), a
a, #0x70; 'p'
(VRAM_start+0x86), a
(VRAM_start+0xA6), a
                                                                                                                                                 purple '0'
                                                                        a, b
b, a
a, #0x10
                                                          add
                                                                                                                                                 2nd digit to 'ascii'
                                                          ld
ld
                                                                                                                                                 store
<space>
0689
0689 32 E6 74
068C 78
068D 32 C6 74
                                                                                                                                               ; 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
```

; CODE XREF: 0000:0632[†]j

; CODE XREF: 0000:06AA11

CODE XREF: 0000:01DC[†]p check_and_award_bonus+2C[†]j

; CODE XREF: display_lives_and_level+D|j

return if attract mode

DATA XREF: ... store alive flag

; column delta

<space> ; next column

06A8 06A8 06A8 D6 01

06AA 20 05 06AC 21 B8 63 06AF 36 01 06B1

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_6A8:

loc_0_6B1:

loc_0_6C2:

sub jr ld ld

daa

ld jр

ld

rst ld

ld

ld

1d

add

display_lives_and_level:

NZ, loc_0_6B1 hl, #unk_0_63B8 (hl), #1

(bonus_timer), a

loc 0 66A

SUBROUTINE

c, a 8 b, #6

de, #0xFFE0

(hl), #0x10 hl, de

 $hl, \#VRAM_start+0x383$

```
06C5 10 FB
06C7 3A 28
                                                                       djnz
                                                                                      loc_0_6C2
                                                                                                                                                                       ; wipe 6 icons
                                                                                            (lives left)
              3A 28 62
                                                                       ld
                                                                       sub
jp
ld
                                                                                                                                                                       ; decrement if mario alive
; none to display, skip
; number of lives
; screen location
     06CB CA D7 06
06CE 47
06CF 21 83 77
                                                                                      Z, loc_0_6D7
                                                                                      hl, #VRAM_start+0x383
                                                                       ld
     06D2
06D2
06D2 36 FF
                                                                                                                                                                       ; CODE XREF: display_lives_and_level+1D|j
                                      loc_0_6D2:
                                                                                      (hl), #0xFF
hl, de
loc_0_6D2
                                                                       ld
                                                                                                                                                                          mario icon
                                                                                                                                                                       ; mario icon
; next screen location
; loop for no. of lives
     06D4 19
                                                                       add
    06D4 19
06D5 10 FB
06D7
06D7
06D7 21 03 75
06DA 36 1C
06DC 21 E3 74
06DF 36 34
06EB 3A 29 62
                                                                       djnz
                                      loc_0_6D7:
                                                                                                                                                                       ; CODE XREF: display_lives_and_level+13<sup>†</sup>j
                                                                                      hl, #VRAM_start+0x103
(hl), #0x1C
hl, #VRAM_start+0xE3
(hl), #0x34; '4'
a, (level)
                                                                       1d
                                                                       ld
ld
                                                                                                                                                                       7 'L'
                                                                       ld
    06DF 36 34
06E1 3A 29 62
06E4 FE 64
06E6 38 05
06E8 3E 63
06EA 32 29 62
06ED
                                                                       ld
                                                                       cp
jr
ld
                                                                                                                                                                       ; too high?
; no, skip
; max out at 99
                                                                                      C, loc_0_6ED
                                                                       ld
                                                                                       (level), a
                                                                                                                                                                       ; adjust
                                      loc 0 6ED:
                                                                                                                                                                       ; CODE XREF: display lives and level+2E<sup>†</sup> j
     06ED 01 0A FF
                                                                       ld
                                                                                      bc. #0xFF0A
     06F0
06F0
06F0 04
                                      loc_0_6F0:
                                                                                                                                                                       ; CODE XREF: display_lives_and_level+3A|j
                                                                                      b
     06F1
                                                                       sub
     06F1 91
06F2 D2 F0 06
06F5 81
06F6 32 A3 74
06F9 78
                                                                      jp
add
ld
                                                                                       NC, loc_0_6F0
                                                                                                                                                                       ; level tens digit
                                                                                       a, c
(VRAM_start+0xA3), a
                                                                      ld
ld
                                                                                                                                                                       ; level units digit
     06FA 32
06FD C9
                                                                                       (VRAM_start+0xC3), a
              32 C3 74
                                                                       ret
                                       ; End of function display_lives_and_level
     06FD
    06FD
06FE
06FE
                                                                                                                                                                       ; DATA XREF: 0000:00D010
     06FE
                                      vector_on_ingame_sequencer:
    06FE 3A
0701 EF
0701
              3A 0A 60
                                                                       1d
                                                                                             (main_sequencer)
                                                                       rst
     0702 86 09
                                                                                                                                                                       ; Jump table
                                                                       .dw cls_and_set_screen_flip
                                                                       .dw cls_and_set_screen_IIIp
dw init_Pl_ingame_data
.dw display_player_I_and_2P_score
.dw init_P2_ingame_data
.dw display_player_II_2UP_and_2P_sco
.dw display_IUP_and_high_score
.dw wait_cls_and_check_seen_intro
.dw wester on intro segmence
     0708 FE 09
    0708
070A
070C
070E
0710
0712
0714
0716
             1B 0A
37 0A
63 0A
76 0A
                                                                       .dw vector on intro sequence
             DA 0B
00 00
91 0C
                                                                       .dw draw_how_high_can_you_get
.dw 0
.dw wait_init_and_draw_level
     0718 3C
071A 7A
071C 7C
071E F2
                                                                       .dw init_mario
.dw gameplay
.dw died_in_gameplay
.dw save_P1_ingame_data
    071E F2 12
0720 44 13
0722 8F 13
0724 A1 13
0726 AA 13
0728 BB 13
072A 1E 14
072C 86 14
                                                                       .dw save_Pl_ingame_data
.dw save_Pl_ingame_data
.dw pl_game_over
.dw pl_game_over
.dw set_flip_and_current_Pl
.dw set_flip_and_current_Pl
.dw draw_name_registered
.dw do_initials_entry
.dw mare_registered
.dw mare_registered
.dw do_initials_entry
.dw mario_nauline_reunion
     072E 15 16
0730 6B 19
0732 00 00
0734 00 00
                                                                       .dw mario pauline reunion
                                                                       .dw cls_and_set_seq_for_current_play
                                                                       .dw
.dw
     0736
              00 00
                                                                       .dw
    0736 00 00
0738 00 00
073A 00 00
073C
073C
073C
073C 21 0A
073F 3A 01
                                                                       .dw
                                      ; DATA XREF: 0000:00CCTo
    073C 21 0A 60
073F 3A 01 60
0742 A7
0743 C2 5C 07
0746 7E
0747 EF
                                                                       and
jp
ld
                                                                                                                                                                       ; any credits?
; yes, skip
                                                                                      NZ, inc_nmi_sequencer
                                                                                             (hl)
                                                                                      a, (h
0x28
                                                                                                                                                                       ; go!
    0747 EF
0747 0748 79 07
0748 63 07
074C 3C 12
074E 77 19
0750 7C 12
0752 C3 07
0754 CB 07
0756 4B 08
0758 00 00
                                                                       rst
                                                                       .dw insert_coin_screen
.dw init_attract_mode_and_draw_level
.dw init_mario
                                                                                                                                                                       ; Jump Table (attract sequencer)
                                                                       .dw attract_mode_gameplay
.dw died_in_gameplay
                                                                       .dw cls_and_next_sequence
.dw tis_and_next_sequence
.dw title_screen_flash
.dw title_screen_no_flash
.dw 0
     0756 4B 08
0758 00 00
075A 00 00
    075C
075C
075C
075C
                                                                                                                                                                          CODE XREF: 0000:0743 j
                                      inc_nmi_sequencer
                                                                                       (hl), #0
hl, #nmi_sequencer
              36 00
                                                                       ld
                                                                                                                                                                       ; reset game seguencer
    075E 21 05 60
0761 34
0762 C9
                                                                      ld
inc
                                                                                       (hl)
                                                                                                                                                                       ; inc nmi_sequencer
076.
0763
0763
0763 E7
0764 AF
0765 32 92 63
"68 32 A0 63
"3E 01
"2 27 6f
29 6
                                                                       ret
                                                                                                                                                                       ; DATA XREF: 0000:074A\u00e1o
; wait for 16-bit countdown
                                       init_attract_mode_and_draw_level:
                                                                      rst
                                                                                      0x20
                                                                       xor
                                                                       ld
ld
                                                                                       (unk_0_6392), a
(unk_0_63A0), a
                                                                                      a, #1
(level_type), a
              3E 01
32 27 62
32 29 62
32 28 62
                                                                       ld
                                                                       ld
     0770 32 29 62
0773 32 28 62
0776 C3 92 0C
                                                                       ld
ld
                                                                                        (level), a
(lives_left),
                                                                       jр
                                                                                       init and draw level
                                                                                                                                                                       ; DATA XREF: 0000:074810
                                      insert_coin_screen:
     0779 21 86 7D
                                                                                      hl, #palette_bank
(hl), #0
                                                                       1d
     077C 36 00
```

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

083B

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

085C 23

085D 10 FC

085F 0D

0860 C2 57 08

0863 21 00 69

0866 0E 02

0868
                                                  djnz
dec
                                                              loc_0_85B
                                                                                                                           ; clear 256 bytes
                                                              NZ. loc 0 857
                                                                                                                           ; do 1024 bytes
                                                  jp
ld
                                                              hl, #soft_sprite_ram
c, #2
                                                                                                                           ; 2x192 bytes to clear
                                                                                                                           ; CODE XREF: clear_tiles_and_sprites+lE|j; 192 bytes to clear
0868
                          loc 0 868:
0868 06 C0
086A AF
086B
                                                  1d
                                                              b, #192
                                                  xor
                                                                                                                           ; CODE XREF: clear_tiles_and_sprites+1B| 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
0880
0880 77
0881 23
                                                                                                                              CODE XREF: clear_visible_area_and_sprites+E|j display space character next line
                          loc_0_880:
                                                  ld
                                                               (hl), a
                                                                                                                           , next line
; loop screen height
; next column
; done all columns?
; no, loop
0882 10 FC
0884 19
0885 0D
0886 C2 79 08
                                                               loc 0 880
                                                  djnz
                                                  add
dec
                                                              hl, de
                                                              NZ, loc_0_879
                                                  jp
ld
0889 21 22 75
088C 11 20 00
088F 0E 02
0891 3E 10
                                                              h1, #VRAM_start+0x122
de, #32
c, #2
                                                  ld
ld
ld
                                                              a, #0x10
                                                                                                                           ; <space>
0893
0893
0893 06 0E
                          loc_0_893:
                                                                                                                           ; CODE XREF: clear_visible_area_and_sprites+29\mid j ; 14 columns
                                                              b, #14
                                                  ld
                                                                                                                           ; CODE XREF: clear_visible_area_and_sprites+23|; display space character; next column; loop for 14 columns
0895
0895
0895 77
0896 19
                          loc_0_895:
                                                              (h1), a
h1, de
loc_0_895
                                                  ld
add
0896 19
0897 10 FC
0899 21 23 75
089C 0D
089D C2 93 08
08A0 21 00 69
08A3 06 00
08A5 3E 00
08A7
                                                  djnz
                                                  ld
dec
                                                              hl, #VRAM_start+0x123
                                                              NZ, loc_0_893
hl, #soft_sprite_ram
                                                                                                                           ; repeat at new location
                                                  jp
ld
                                                  ld
ld
                                                                                                                           ; 256 bytes to clear ; clear to 0x00
                                                                                                                           ; CODE XREF: clear_visible_area_and_sprites+35|;
; clear soft sprite ram byte
; next location
; do 256 bytes
08A7
08A7 77
08A8 23
08A9 10 FC
                          loc 0 8A7:
                                                  ld
                                                              (hl), a
                                                               loc_0_8A7
                                                  dinz
08AB 06 80
08AD
08AD
                                                              b, #128
                                                                                                                           ; 128 bytes to clear
                                                                                                                             CODE XREF: clear_visible_area_and_sprites+3B|j clear soft sprite ram byte
                          loc_0_8AD:
                                                               (hl), a
08AD 77
                                                  1d
                                                                                                                           ; next location
; clear 128 bytes
08AE 23
08AF 10 FC
08B1 C9
                                                  djnz
                                                               loc_0_8AD
                                                  ret
                          ; End of function clear_visible_area_and_sprites
08B1
08B1
08B2
08B2
                                                              a, (main_sequencer)
                                                                                                                           ; DATA XREF: 0000:00CE10
08B2
                          vector_on_credit_sequencer:
08B2 3A 0A 60
08B5 EF
                                                                                                                           ; go!
08B5
                                                  .dw display_1P_2P_start_screen .dw process_1P_2P_start
08B6 BA 08
                                                                                                                           ; jump table
08B8 F8 08
08BA
08BA
08BA
                          display_1P_2P_start_screen:
                                                                                                                           ; DATA XREF: 0000:08B61o
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
08BA CD 74 08
                                                     call
                                                                 clear_visible_area_and_sprites
08BD AF
08BE 32 07 60
08C1 11 0C 03
08C4 CD 9F 30
08C7 21 0A 60
08BD AF
                                                     xor
                                                    ld
ld
call
                                                                 (attract_mode_flag), a de, #0x30C queue_fg_vector_fn
                                                                                                                                 ; clear attract mode flag
; print_message_0C
08C7 21 0A 60
08CA 34
08CB CD 65 09
08CE AF
                                                     ld
inc
                                                                 hl, #main_sequencer (hl)
                                                     call
                                                                 queue_hs_table_for_display
                                                     xor
                                                                 a
hl, #palette_bank
(hl), a
08CE AF
08CF 21 86 7D
08D2 77
08D3 2C
08D4 77
                                                     1d
                                                     ld
                                                     inc
ld
                                                                 (hl), a
                                                                                                                                 ; palette bank 0
08D5
08D5
08D5
                                                    SUBROUTINE
08D5
08D5

08D5

08D5

08D5

06 04

08D7 1E 09

08D9 3A 01 60

08DC FE 01

08DE CA E4 08

08E1 06 0C

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

08E4

08E4

08E4 3A 1A 60

08E7 E6 07

08E9 C2 F3 08

08EC 7B

08ED CD E9 05
                                                                                                                                 ; CODE XREF: display_start_1P_2P_get_selectio+9<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_1P_2P_get_selectio+14^j
                                                    ld
                                                                 a, (in2_snd_latch)
                                                                                                                                 ; read IN2
08F6 A0
08F7 C9
08F7
08F7
                                                                                                                                 ; only START1/START2
                                                     and
                                                     ret
                           ; End of function display_start_1P_2P_get_selectio
08F8
08F8
08F8
08F8 CD D5 08 08F8 FE 04 08FB FE 04 08FD CA 06 09 0900 FE 08 0900 CA 19 09 0906 CD 77 09 0909 21 48 60 0900 CB AF
                                                                                                                                 ; DATA XREF: 0000:08B810
                           process 1P 2P start:
                                                     call
                                                                 display_start_1P_2P_get_selectio
                                                                 #4
Z, start_1_selected
                                                                                                                                 ; START1?
; yes, skip
; START2?
                                                     ср
                                                     jр
                                                    cp
jp
ret
                                                                 Z, start_2_selected
                                                                                                                                 ; yes, skip
                           start_1_selected:
                                                                                                                                 ; CODE XREF: 0000:08FD1 i
                                                    call
                                                                  dec_credits_and_display
                                                     ld
                                                                 hl, #p2_ingame_data
b, #8
090C 06
090E AF
090F
090F
                                                     1d
                                                                                                                                 ; CODE XREF: 0000:0911 j
loc_0_90F:
                                                    ld
                                                                  (hl), a
                                                     djnz
                                                                  loc_0_90F
                                                     ld
                                                                       #0
                                                     jp
                                                                 start_game
                                                                                                                                 ; CODE XREF: 0000:09021j
                           start_2_selected:
                                                                 dec_credits_and_display
dec_credits_and_display
de, #p2_ingame_data
a, (lives_per_game)
                                                    call
call
ld
                                                                 a, (live (de), a
                                                     ld
                                                    ld
inc
ld
                                                                 e
hl, #game_init_data
bc, #7
0927 21 5E 09
092A 01 07 00
092D ED BO
092F 11 01 01
0932 CD 9F 30
0935 21 00 01
0938
0938
0938 22 0E 60
093B CD 74 08
093E 11 40 60
0941 3A 20 60
                                                     1d
                                                    ldir
ld
call
                                                                 de, #0x101
                                                                                                                                 ; zero_score_or_high_score
                                                                 queue fa vector fn
                                                     ld
                                                                 hl, #0x100
                                                                                                                                 ; players=2, current_player=1
                                                                                                                                 ; CODE XREF: 0000:0916<sup>†</sup>j
                           start_game:
                                                                 (current_player_E), hl
clear_visible_area_and_sprites
de, #pl_ingame_data
a, (lives_per_game)
/de)
                                                     ld
                                                                                                                                 ; players and current player
                                                     call
ld
ld
                                                                 a, (live (de), a
0944 12
                                                     ld
0944 12
0945 1C
0946 21 5E 09
0949 01 07 00
094C ED BO
094E 11 00 01
0951 CD 9F 30
0954 AF
                                                     inc
ld
                                                                 e
hl, #game_init_data
                                                                                                                                 ; 7 bytes
                                                     ld
ldir
                                                                 bc, #7
                                                    ld
call
                                                                 de. #0x100
                                                                                                                                 ; zero_score_or_high_score
                                                                 queue_fg_vector_fn
                                                     xor
0954 AF
0955 32 0A 60
0958 3E 03
095A 32 05 60
095D C9
                                                     ld
                                                                  (main_sequencer), a
                                                     ld
                                                                 a, #3
(nmi_sequencer), a
                                                     ld
                                                     ret
095D
095E 01
095E
                                                                                                                                 ; DATA XREF: 0000:0927\o; 0000:0946\o
                           game_init_data: .db 1
                                                                                                                                 ; Start of game level init data
095E
```

; CODE XREF: 0000:078B1p

; 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

; next msg

095F 65 3A 0961 01 00 00 00 0965

0965 11 00 04

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

0970 CD 9F 30 0973 1C

0965 0965 0965 .dw level_seq_1
.db 1, 0, 0, 0

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

queue_fg_vector_fn

queue hs table for display:

loc_0_970:

call

call

ld ld

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
0974 10 FA
                                                          djnz
                                                                        loc_0_970
                                                                                                                                               ; loop through messages
0976 C9
                                                          ret
                              ; End of function queue_hs_table_for_display
                                       SUBROUTINE
                              dec_credits_and_display:
                                                                                                                                                  CODE XREF: 0000:09061p
                                                                                                                                               ; 0000:0919<sup>p</sup> ...
                                                                        hl, #no_of_credits
a, #0x99 ; 'Ö'
a, (hl)
                                                          14
                                                          ld
                                                          add
                                                          daa
                                                                                                                                               ; decrement credits
                                                                        (hl), a
de, #0x400
queue_fg_vector_fn
                                                          ld
ld
                                                                                                                                               ; save
; display_credits_if_attract_mode
                                                          call
0985 C9
0985
0985
                              ret
; End of function dec_credits_and_display
0985
0986
0986
0986
0986 CD 52 08
0989 CD 1C 01
098F 38 01
0991 12
0992 21 0A 60
0995 3A 0E 60
0998 A7
0999 C2 9F 09
099C 36 01
099E C9
099F
099F
                              cls_and_set_screen_flip:
                                                                                                                                               ; DATA XREF: 0000:070210
                                                                        clear_tiles_and_sprites
                                                          call
call
                                                                        clear_tiles_and_sprit
stop_sound
de, #flipscreen
a, #1
(de), a
hl, #main_sequencer
a, (current_player_E)
                                                          ld
ld
                                                                                                                                               ; default flipscreen
                                                          ld
                                                          14
                                                          ld
                                                          and
jp
ld
                                                                                                                                               ; player 2?
; yes, skip
; ingame sequencer = 1
                                                                        a
NZ, loc_0_99F
                                                                        (hl), #1
                                                                                                                                                 CODE XREF: 0000:0999<sup>†</sup>j get cabinet type upright?
099F
099F 3A 26 60
09A2 3D
                              loc_0_99F:
                                                                        a, (upright)
                                                          ld
                                                          dec
09A2 3D
09A3 CA A8 09
09A6 AF
09A7 12
09A8
                                                                        a
Z, loc_0_9A8
                                                          jp
xor
ld
                                                                                                                                                 yes, skip
disable flipscreen
to hardware
                                                                        (de), a
                                                                                                                                               ; CODE XREF: 0000:09A3<sup>†</sup>j; ingame sequencer = 3
09A8
                              loc_0_9A8:
09A8 36 03
09AA C9
                                                          ld
ret
                                                                        (hl), #3
09AB
09AB
09AB  
09AB  
09AB  
11     28     62  
09B1     01     08  
09B4     ED     80  
09B4     ED     80  
09B6     2A     2A     62  
09B9     7E  
09BA     32     27     62  
09BA     32     07     60  
09CO     A7  
09CO     31     09     60
                              init_P1_ingame_data:
                                                                                                                                               ; DATA XREF: 0000:0704\(^{\)0}
                                                                        hl, #p1_ingame_data
de, #lives_left
bc, #8
                                                          ld
                                                                                                                                               ; player_current_data
; 8 bytes to copy
                                                          ld
                                                          ld
                                                           ldir
                                                                                                                                               ; ptr current sequence table
; get level type
; store as current
                                                                        hl, (seq_data)
                                                          ld
                                                          ld
ld
ld
                                                                        a, (h1)
(level_type), a
a, (two_players)
                                                                                                                                               ; 1 player?
                                                          and
09C0 A7
09C1 21 09 60
09C4 11 0A 60
09C7 CA DO 09
09CA 36 78
09CC EB
                                                                        a
hl, #eight_bit_countdown
de, #main_sequencer
Z, loc_0_9D0
(hl), #0x78; 'x'
de, hl
(hl), #2
                                                          ld
ld
jp
ld
                                                                                                                                               ; yes, skip
; set 8-bit countdown
                                                          ex
09CC EB
09CD 36 02
09CF C9
09D0
09D0
09D0
09D0 36 01
                                                          ld
ret
                                                                                                                                               ; next sequence (2)
                                                                                                                                               ; CODE XREF: 0000:09C7\j; set 8-bit countdown
                              loc_0_9D0:
                                                                        (hl), #1
de, hl
(hl), #5
                                                          ld
09D2 EB
09D3 36 05
09D5 C9
09D6
                                                          ex
ld
                                                                                                                                               ; next sequence (5)
                                                          ret
09D6
09D6 AF
09D7 32 86 7D
09DA 32 87 7D
09DA 11 02 03
09E0 CD 9F 30
09E3 11 01 02
09E6 CD 9F 30
09E9 3E 05
09E9 3E 05
09D6
                              display_player_I_and_2P_score:
                                                                                                                                               ; DATA XREF: 0000:0706 o
                                                          xor
ld
                                                                        a (palette_bank), a (palette_bank+1), a de, #0x302 queue_fg_vector_fn
                                                                                                                                               ; palette bank 0
; display_message_02 "PLAYER (I)"
                                                          ld
                                                          ld
                                                          call
                                                                                                                                               ; display_score_or_high_score (P2)
                                                          ld
                                                                        de. #0x20
                                                          call
ld
                                                                        queue_fg_vector_fn
a, #5
                                                                        (main_sequencer), a
                                                          ld
09EE
09EE
09EE
                                                          SUBROUTINE
09EE
09EE
                                                                                                                                                  CODE XREF: 0000:07A01p
                              display_2UP:
09EE 3E 02
09EE
                                                                                                                                               ; 0000:0A2E|p; '2'
                                                          ld
ld
                                                                        a, #2
(VRAM_start+0xE0), a
09F0 32 E0 74
09F3 3E 25
09F5 32 CO 74
09F8 3E 20
09FA 32 AO 74
                                                                         a, #0x25 ; '%'
(VRAM_start+0xC0), a
                                                          ld
                                                                                                                                               7 '11'
                                                          ld
ld
                                                                        a, #UXZU ,
(VRAM_start+0xA0), a
                                                          ld
09FD C9
09FD
09FD
                              ret; End of function display_2UP
09FE
                                                                                                                                               ; DATA XREF: 0000:070810
                              init_P2_ingame_data:
                                                                        hl, #p2_ingame_data
de, #lives_left
                                                          ld
                                                                                                                                               ; player_current_data
; 8 bytes to copy
                                                          ld
                                                          ld
ldir
```

hl, (seq_data)
a, (hl)

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

(main_sequencer), a

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

ld ld

ld ld

ld ld

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

; next sequence (4)

```
display_player_II_2UP_and_2P_sco:
                                                                                                                                                     ; DATA XREF: 0000:070A10
0A1B
0A1B AF
                                                             xor
0A1C
0A1F
0A22
                                                            ld
ld
ld
                                                                           (palette_bank), a (palette_bank+1), a de, #0x303
                                                                                                                                                    ; palette bank 0
; display_message_03 "PLAYER (II)"
0A25 CD 9F 30
0A28 11 01 02
0A2B CD 9F 30
0A2E CD EE 09
                                                                           queue_fg_vector_fn
de, #0x201
queue_fg_vector_fn
display_2UP
                                                             call
                                                             ld
                                                                                                                                                     ; display_score_or_high_score (P2)
                                                             call
                                                             call
0A2E CD EE 09
0A31 3E 05
0A33 32 0A 60
0A36 C9
0A37
0A37
0A37
0A37 11 04 03
0A3A CD 9F 30
                                                                           a, #5
(main_sequencer), a
                                                             ld
                                                             ld
                                                             ret
                               display_1UP_and_high_score:
ld de, #0x304
                                                                                                                                                     ; DATA XREF: 0000:070C↑o
0A37

0A37 11 04 03

0A3A CD 9F 30

0A3D 11 02 02

0A40 CD 9F 30

0A43 11 00 02
                                                                                                                                                     ; display_message_04 "HIGH SCORE"
                                                             ld
call
                                                                           queue fa vector fn
                                                                           de, #0x202
queue_fg_vector_fn
                                                             1d
                                                                                                                                                     ; display_score_or_high_score (high)
                                                             call
ld
0A40 CD 9F
0A43 11 00
0A46 CD 9F
0A49 11 00
0A4C CD 9F
0A4F 21 0A
                                                                                                                                                     ; display_score_or_high_score (P1)
                                                                           de, #0x200
30
                                                             call
                                                                           queue_fg_vector_fn
                                                            ld
call
                                                                           de, #0x600
queue_fg_vector_fn
                                                                                                                                                     ; display_lives_and_level
                                                                           hl, #main_sequencer (hl)
                                                             ld
                                                             inc
                                                            SUBROUTINE ...
                                                                                                                                                     ; CODE XREF: 0000:01F1<sup>†</sup>p; 0000:0798<sup>†</sup>p; '1'
                               display_1UP:
ld
                                                            ld
ld
ld
                                                                            (VRAM_start+0x340), a
                                                                                                                                                     ; 'U'
                                                                            a, #UX25 , %
(VRAM_start+0x320), a
                                                                                                                                                     ; 'P
                                                             ld
                                                             1d
                                                                            (VRAM_start+0x300), a
0A63
0A63
0A63
0A63
0A63
0A63
0B7
0A64
0A67
0A60
0A60
0A60
0A60
0A60
0A60
0A71
0A72
0A73
0A73
0A74
0A75
0A76
0A76
0A76
                               ; DATA XREF: 0000:070E↑o
; wait for 8-bit countdown
                                                             rst
call
                                                                           clear_visible_area_and_sprites
                                                             ld
                                                                                  #eight_bit_countdown
                                                                           (hl), #1
                                                             ld
                                                                                                                                                        game_sequencer
                                                             inc
                                                                            (hl)
                                                             inc
                                                                                                                                                     ; inc
                                                                           de, #se
a, (de)
                                                             14
                                                                                  #seen_intro
                                                             ld
                                                             and
                                                                                                                                                     ; already seen intro?
                                                             ret
                                                                           NZ
                                                                            (hl)
                                                                                                                                                     ; skip intro sequence
0A76
0A76
0A76
0A76 3A 85 63
0A79 EF
                               vector_on_intro_sequence:
                                                                                                                                                     ; DATA XREF: 0000:0710 o
                                                                                 (intro_sequencer)
                                                                           a, (
0x28
                                                                                                                                                     ; go!
                                                            rst
0A79 EF

0A79 0A7A 8A 0A

0A7C BF 0A

0A7E E8 0A

0A80 69 30

0A82 06 0B

0A84 69 30

0A86 68 0B
                                                             .dw draw_climb_screen .dw draw_climbing_kong
                                                                                                                                                     ; Jump table
                                                             .dw animate_kong_climbing_ladder
                                                             .dw animate_kong_climbing_ladde:
.dw wait_and_inc_sequence
.dw draw_lst_girder_deformation
.dw wait_and_inc_sequence
.dw draw_rest_of_deformations
.dw growl
0A88 B3 0B
0A8A
0A8A
                                                                                                                                                     ; DATA XREF: display_1UP+27 o
0A8A
                               draw climb screen:
0A8A AF
0A8B 32 86 7D
0A8E 3C
                                                             ld
                                                                            (palette_bank), a
0A8E 3C 0A8F 32 87 7D 0A92 11 0D 38 0A95 CD A7 0D 0A98 3E 10 0A9A 32 A3 76 0AA0 3E D4 0AA2 32 AA 75 0AA5 AF
                                                                           (palette_bank+1), a
de, #draw_data_climb
draw_level_background
a, #0x10
                                                             1d
                                                                                                                                                     ; palette bank 2
                                                             ld
                                                             call
ld
                                                                                                                                                     ; draw intro background
                                                                                                                                                        <space>
                                                            ld
ld
ld
                                                                            a, #0x10
(VRAM_start+0x2A3), a
(VRAM_start+0x263), a
a, #0xD4; 'È'
                                                                                                                                                    ; wipe top of ladder
; half ladder, half girder
                                                                           a, #UXD4 , r
(VRAM_start+Ox1AA), a
                                                             ld
0AA5 AF
0AA6 32 AF
0AA9 21 B4
                                                             xor
ld
ld
                                                                          a (byte_0_62AF), a hl, #dk_intro_jump_up_data (ptr_current_jump_up_data), hl hl, #dk_intro_jump_left_data (ptr_current_jump_left_data), hl
OAA9 21 B4 38
OAAC 22 C2 63
OAAF 21 CB 38
OAB2 22 C4 63
OAB5 3E 40
OAB7 32 09 60
OABA 21 85 63
OABD 34
OABE C9
                                                             ld
                                                                                                                                                    ; store ptr current entry
                                                             ld
ld
                                                                                                                                                    ; store ptr current entry
                                                                           a, #0x40 ; '@'
(eight_bit_countdown), a
                                                             ld
ld
                                                                           hl, #intro_sequencer
                                                             ld
                                                             ret
OABE C9
OABF
OABF
OABF DF
OACO 21 8C 38
OAC3 CD 4E 00
OAC6 21 08 69
OAC9 0E 30
OACB EF
                                                                                                                                                     ; DATA XREF: display_1UP+29\daggero ; wait for 8-bit countdown
                               draw_climbing_kong:
                                                                           0x18
                                                             rst
                                                                          hl, #dk_climbing_spr
copy_sprites_2_11_data
hl, #soft_sprite_ram+8
c, #48
0x38
                                                             1d
                                                             call
ld
                                                                                                                                                     ; sprite #2, y coord
                                                             ld
0ACB FF
0ACC 21 0B 69
0ACF 0E 99
                                                                                                                                                     ; add 48 to y coord for 10 sprites ; sprite #2, x coord
                                                                           hl, #soft_sprite_ram+0xB
c, #153
                                                             ld
                                                                           c, #1
0x38
OAD1 FF
OAD2 3E 1F
OAD4 32 8E 63
OAD7 AF
                                                                                                                                                     ; add 153 to x coord for 10 sprites
                                                             rst
                                                             ld
ld
                                                                                 #0v1F
                                                                            a, #UX1F
(byte_0_638E), a
0AD7 AF
0AD8 32 0C 69
0ADB 21 8A 60
0ADE 36 01
0AE0 23
0AE1 36 03
0AE3 21 85 63
0AE6 34
                                                             xor
                                                                            (soft_sprite_ram+<mark>0xC</mark>), a
                                                             ld
                                                                                                                                                    ; sprite #3, y coord
                                                             ld
ld
                                                                           hl, #unk_0_608A
(hl), #1
                                                             inc
                                                                           hl
                                                                           (h1), #3
h1, #intro_sequencer
(h1)
                                                             ld
ld
0AE7 C9
0AE8
```

```
0AE8
                                                                                                                                                        ; DATA XREF: display 1UP+2B1o
 0AE8
                                animate_kong_climbing_ladder:
0AE8
0AE8 CD 6F 30
0AEB 3A AF 62
0AEE E6 0F
0AF0 CC 4A 30
0AF3 3A 0B 69
0AF6 FE 5D
0AF8 D0
                                                             call
ld
and
                                                                             animate_kong_climbing
a, (byte_0_62AF)
#0xF
                                                                            #UXF'
Z, wipe_ladder_as_kong_climbs
a, (soft_sprite_ram+0xB)
#0x5D; ']'
NC
                                                                                                                                                        ; time to wipe ladder?
                                                                                                                                                        ; yes, do so
; sprite #2, x coord
; done climbing?
; on, return
                                                               call
                                                               ld
                                                               СБ
                                                                            NC
a, #0x20; ''
(eight_bit_countdown), a
hl, #intro_sequencer
(h1)
0AF8 D0
0AF9 3E 20
0AFB 32 09 60
0AFE 21 85 63
0B01 34
0B02 22 C0 63
0B05 C9
0B06
0B06
                                                               ret
                                                               1d
                                                               ld
ld
                                                                                                                                                        ; next sequence (3)
                                                               inc
                                                                             (ptr_current_sequence), hl
                                                               1d
 0B06
 0B06
0B06
0B09
                                {\tt draw\_1st\_girder\_deformation:}
                                                                                                                                                       ; DATA XREF: display_1UP+2F<sup>o</sup>
          3A 1A 60
0F
                                                                             a, (gen_purpose_timer)
                                                                                                                                                        ; time to animate?
; no, return
                                                              rrca
 0B0A D8
                                                               ret
 0B0B 2A C2 63
0B0E 7E
0B0F FE 7F
                                                                             hl, (ptr_current_jump_up_data)
a, (hl)
#0x7F; ' '
                                                               1d
                                                               ld
                                                                                                                                                        ; done jumping up?
; yes, skip
0B0F FE 7F
0B11 CA 1E 0B
0B14 23
0B15 22 C2 63
0B18 4F
0B19 21 0B 69
0B1C FF
0B1D C9
0B1E
                                                               ср
                                                               jp
inc
                                                                              Z, draw_pauline_and_kong
                                                                             (ptr_current_jump_up_data), hl
                                                                             c, a
hl, #soft_sprite_ram+0xB
                                                               ld
                                                               14
                                                                                                                                                        ; sprite #2,X coord
 0B1E
0B1E
0B1E 21 5C 38
0B1E
                                draw_pauline_and_kong:
                                                                                                                                                       ; CODE XREF: display_1UP+BE↑j
                                ld hl, #dk_normal_spr; End of function display_1UP
 0B1E
0B21 CD 4E 00
0B24 11 00 69
0B27 01 08 00
                                                                             copy_sprites_2_11_data
de, #soft_sprite_ram
bc, #8
                                                               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
                                                                                                                                                        ; place pauline on girder
; sprite #2, y coord
                                                               ldir
                                                               ld
                                                                             hl, #soft_sprite_ram+8
                                                               ld
                                                                             c, #0
0x38
                                                                                   #0x50 ; 'P'
                                                               rst
                                                                             hl, #soft_
c, #0xFC;
0x38
                                                               ld
ld
                                                                                     #soft_sprite_ram+0xB
                                                                                                                                                       ; sprite #2, x coord
                                                              rst
 0B38

0B38 CD 4A 30

0B38 B A 8E 63

0B3E FE 0A

0B40 C2 38 0B

0B43 3E 03
                                                                                                                                                        ; CODE XREF: 0000:0B40|j
                                loc_0_B38:
                                                                             wipe_ladder_as_kong_climbs
a, (byte_0_638E)
                                                               call
                                                                             a, (1
#0xA
                                                               1d
                                                               cp
jp
ld
                                                                                                                                                        ; done wiping ladders?
; no, loop
; tmr=3
                                                                             #Uzz
NZ, lo
                                                                                     loc_0_B38
0843 3E 03

0845 32 82 60

0848 11 2C 39

0848 CD A7 0D

0848 3E 10

0850 32 AA 74

0853 32 8A 74

0856 3E 05

0858 3E 20

0850 32 90 60

0850 32 09 60

0860 21 85 63

0863 34

0867 C9

0868
                                                                             a, #3
(digital_snd_tmr_thump), a
de, #draw_data_bend_girders_1
draw_level_background
                                                              ld
ld
call
ld
                                                                              (VRAM_start+0xAA), a
(VRAM_start+0x8A), a
                                                              ld
ld
ld
ld
                                                                             (next_girder_to_deform), a
                                                                             (eight_bit_countdown), a
hl, #intro_sequencer
(hl)
                                                               ld
ld
                                                               inc
                                                               14
                                                                              (ptr_current_sequence), hl
 0B68
 0B68
0B68 3A 1A 60
0B6B 0F
                                {\tt draw\_rest\_of\_deformations:}
                                                                                                                                                      ; DATA XREF: display_1UP+3310
                                                               ld
                                                                             a, (gen_purpose_timer)
                                                              rrca
 0B6C D8
0B6D 2A C4 63
0B70 7E
0B71 FE 7F
                                                               ret
                                                               ld
ld
                                                                             hl, (ptr_current_jump_left_data)
a, (hl)
#0x7F; ''
                                                               Cρ
 0B73 CA 86 0B
0B76 23
0B77 22 C4 63
                                                               jp
inc
ld
                                                                             Z, loc_0_B86
hl
                                                                              (ptr_current_jump_left_data), hl
 0B7A 21 0B 69
                                                                                                                                                        ; sprite #2, x coord
                                                               ld
                                                                             hl, #soft_sprite_ram+0xB
 087A 21 08 69
087D 4F
087E FF
087F 21 08 69
0882 0E FF
0884 FF
0885 C9
                                                              ld
rst
ld
                                                                             hl, #soft_sprite_ram+8
                                                                                                                                                        ; sprite #2, y coord
                                                               ld
                                                                                   #0xFF
                                                                             c, #0
0x38
                                                                                                                                                        ; subtract 1 from y coord for 10 sprites
 0B86
0B86
0B86

0B86

0B86

21 CB 38

0B89

22 C4 63

0B8C 3E 03

0B8E 32 82 60

0B91

21 DC 38

0B94

3A 8D 63
                                loc_0_B86:
                                                                                                                                                        ; CODE XREF: 0000:0B731i
                                                                                    #dk_intro_jump_left_data
                                                                             (ptr_current_jump_left_data), hl
                                                               ld
                                                              ld
ld
ld
ld
                                                                             a, #3
(digital_snd_tmr_thump), a
hl, #draw_data_bend_girders_2

....t girder to deform)
                                                                                                                                                        ; tmr=3
                                                                             a, (next_girder_to_deform)
 0B97 3D
0B98 07
0B99 07
                                                              dec
rlca
                                                               rlca
 0B9A 07
                                                               rlca
 0B9B 07
0B9C 5F
0B9D 16 00
0B9F 19
                                                              rlca
ld
ld
                                                                             e, a
d, #0
                                                                             hl, de
de, hl
draw_level_background
                                                               add
 0BA0 EB
0BA1 CD A7 0D
0BA4 21 8D 63
0BA7 35
                                                               ex
call
                                                                             hl, #next_girder_to_deform (hl)
                                                               ld
                                                               dec
 0BA7 35

0BA8 C0

0BA9 3E B0

0BAB 32 09 60

0BAE 21 85 63

0BB1 34

0BB2 C9
                                                                             (NI)
NZ
a, #0xB0; '\"
(eight_bit_countdown), a
hl, #intro_sequencer
(hl)
                                                               ret
ld
                                                               1d
                                                              ld
inc
                                                               ret
 0BB3
```

0BB3

```
; DATA XREF: display_1UP+35\(\)o
0BB3
                             growl:
                                                                      hl, #unk_0_608A
a, (eight_bit_countdown)
#0x90; 'É'
NZ, loc_0_BC8
0BB3 21 8A 60
0BB3 21 8A 60

0BB6 3A 09 60

0BB9 FE 90

0BBB 20 0B

0BBD 36 0F

0BBF 23

0BC0 36 03

0BC2 21 19 69
                                                         ld
cp
jr
ld
                                                                        (hl), #0xF
                                                                       (h1), #3
h1, #soft_sprite_ram+0x19
(h1)
                                                         ld
ld
                                                                                                                                            ; sprite #6, flipy & code
0BC5 34
                                                         inc
                                                                       loc_0_BD1
0BC6 18 09
0BC8
0BC8
                                                         jr
0BC8
0BC8 FE 18
0BCA 20 05
0BCC 21 19 69
                                                                                                                                            ; CODE XREF: 0000:0BBB<sup>†</sup> i
                             loc_0_BC8:
                                                                       #0x18
NZ, loc_0_BD1
hl, #soft_sprite_ram+0x19
                                                         jr
ld
                                                                                                                                            ; sprite #6, flipy & code
0BCF 35
0BD0 00
0BD1
                                                         dec
                                                                        (h1)
                                                                                                                                             ; CODE XREF: 0000:0BC61i
0BD1
                             loc 0 BD1:
0BD1 DF
0BD1
0BD2 AF
                                                                                                                                             ; 0000:0BCA j; wait for 8-bit countdown
                                                         rst
                                                                       a
(intro_sequencer), a
                                                         xor
ld
0BD2 AF
0BD3 32 85 63
0BD6 34
0BD7 23
0BD8 34
                                                         inc
                                                                        (hl)
                                                                       (hl)
                                                         inc
0BD9 C9
0BDA
0BDA
0BDA
                                                                                                                                            ; DATA XREF: 0000:0712†o
                             draw_how_high_can_you_get:
OBDA
OBDA CD 1C 01
OBDD DF
OBDE CD 74 08
OBE1 16 06
OBE3 3A 00 62
OBE6 5F
OBE7 CD 9F 30
                                                         call
rst
call
                                                                       stop_sound 0x18
                                                                                                                                            ; wait for 8-bit countdown
                                                                        clear_visible_area_and_sprites
                                                                                                                                             ; display lives and level
                                                         ld
                                                                       d, #6
                                                                       a, (mario_alive_flag)
e, a
                                                         ld
                                                         call
                                                                       queue_fg_vector_fn
OBE7 CD 9F 30
OBEA 21 86 7D
OBEA 21 86 7D
OBED 36 01
OBEF 23
OBF3 26 00
OBF2 21 8A 60
OBF7 23
OBF8 36 02
OBFA 21 A7 63
OBFD 36 00
OBFF 21 D7 60
OC02 22 A8 63
                                                                       hl, #palette_bank (hl), #1
                                                         ld
                                                         ld
inc
                                                                       hl (hl), #0 hl, #unk_0_608A
                                                                                                                                            ; set palette #1
                                                         ld
                                                                       (h1), #2
h1
(h1), #3
                                                         ld
                                                         inc
                                                                        hl, #height_counter
(hl), #0
hl, #VRAM_start+0x2DC
                                                         ld
ld
ld
ld
                                                                                                                                            ; display location for height strings
0C02 22 A8 63
0C05 3A 2E 62
0C08 FE 06
0C0A 38 05
                                                                       (disp_loc_for_height_string), hl
                                                                       a, (height)
#6
C, loc_0_C11
                                                         ld
cp
                                                                                                                                             ; higher than max?
; no, skip
; set max height
                                                         jr
1d
0C0C 3E 05
0C0E 32 2E 62
0C11
0C11
                                                                       (height), a
                                                                                                                                            ; CODE XREF: 0000:0C0Afj
                             loc_0_C11:
0C11 3A 2F 62
0C14 47
0C15 3A 2A 62
0C18 B8
                                                         1d
                                                                       a, (last_seq_lsb)
                                                                       b, a
a, (seq_data)
b
Z, loc_0_C1F
                                                         ld
ld
                                                                                                                                            ; lsb of current level sequence ptr
; same as last time?
; yes, skip
OC18 B8
OC19 28 04
OC18 21 2E 62
OC1E 34
OC1F
OC1F
OC1F 32 2F 62
OC22 3A 2E 62
OC25 47
OC26 21 BC 75
OC29
OC29
OC29
OC29
OC29 0C29
OC29
OC29
OC20 50
                                                         cp
jr
ld
                                                                       hl, #height (hl)
                                                                                                                                            ; inc height
                                                                                                                                            ; CODE XREF: 0000:0C19<sup>†</sup>j; update
                             loc_0_C1F:
                                                         ld
ld
                                                                       (last_seq_lsb), a
                                                                       a, (height)
b, a
                                                         ld
                                                                       hl, #VRAM_start+0x1BC
                                                                                                                                            ; display location for kong
                                                                                                                                             ; CODE XREF: 0000:0C7F|j; 1st tile for kong
                             loc_0_C29:
0C29 0E 50
0C2B
0C2B
0C2B 71
                                                                       c, #0x50 ; 'P'
                                                         1d
                             loc_0_C2B:
                                                                                                                                                CODE XREF: 0000:0C40|j
                                                                                                                                               display
next tile
next location
display
next tile
next location
                                                                       (hl), c
                                                         ld
0C2B 71
0C2C 0C
0C2D 2B
0C2E 71
0C2F 0C
0C30 2B
0C31 71
0C32 0C
                                                         inc
                                                         ld
                                                                       (hl), c
                                                         inc
                                                                                                                                               display
next tile
next location
                                                          ld
                                                                        (hl), c
                                                         inc
0C32 0C
0C33 2B
0C34 71
0C35 79
0C36 FE 67
0C38 CA 43 0C
                                                                       hl
                                                         dec
                                                         ld
ld
                                                                        (hl), c
                                                                                                                                             ; display
                                                                        a, c
#0x67;
                                                         cp
jp
inc
                                                                                                                                             ; last tile?
                                                                       #Ux67 ; 'g'
Z, loc_0_C43
                                                                                                                                             ; yes, skip (exit); next tile; column offset; next column
0C3B 0C
0C3C 11 23 00
0C3F 19
                                                                       de, #0x23 ; '#'
                                                         add
                                                                       hl, de
0C41 C3 2B 0C 0C43 0C43 0C43 0C43
                                                                       loc_0_C2B
                                                         jp
                                                                                                                                             ; loop another column
                                                                                                                                            ; CODE XREF: 0000:0C38 j
                             loc 0 C43:
0C43 3A A7 63
0C46 3C
0C47 32 A7 63
                                                         ld
inc
ld
                                                                       a, (height_counter)
                                                                       (height_counter), a
0C4A
         3D
                                                         dec
                                                                                                                                            ; 0-based
0C4B CB 27
0C4D CB 27
                                                         sla
sla
0C4D CB
0C4F E5
                                                                                                                                             ; x4 for table entry
                                                         push
ld
0C50 21 F0 3C
                                                                       hl, #how_high_strings
0C53 C5
0C54 DD 2A A8 63
                                                         push
ld
                                                                       bc
ix, (disp_loc_for_height_string)
                                                                                                                                             ; display location for height strings
                                                         ld
                                                                       c, a
b, #0
                                                                                                                                             ; table entry offset
0059 06 00
                                                         ld
                                                                                                                                            ; get ptr how high string
; get lst byte
; display
                                                         add
ld
                                                                       hl, bc
a, (hl)
                                                                       a, (hl)
0x60(ix), a
0C5D DD 77 60
                                                         ld
0060
                                                                       hl
0C61 7E
0C62 DD 77 40
                                                                       a, (hl)
0x40(ix), a
                                                         ld
                                                                                                                                            ; get 2nd byte
; display
                                                         ld
0C65 23
0C66 7E
                                                                       h1
                                                                       a, (hl)
                                                                                                                                            ; get 3rd byte
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
                                                                              0x20(ix), a
0xE0(ix), #0x8B; 'ï'
0C67 DD 77 20
0C6A DD 36 E0 8B
                                                               ld
                                                                                                                                                           ; display
                                                               ld
OC6A DD 36 E0
OC6E C1
OC6F DD E5
OC71 E1
OC72 11 FC FF
OC75 19
OC76 22 A8 63
OC79 E1
                                                               pop
ld
                                                                                                                                                          ; offset for next string ; display location for next string
                                                                              de, #0xFFFC
hl, de
(disp_loc_for_height_string), hl
                                                               add
                                                               ld
                                                               pop
ld
                                                                              hl
de, #0xFF5F
ОС79 E1
ОС7A 11 5F FF
ОС7D 19
                                                               add
dec
0C7D 19

0C7E 05

0C7F C2 29 0C

0C82 11 07 03

0C85 CD 9F 30

0C88 21 09 60

0C8B 36 A0
                                                                              b
NZ, loc_0_C29
                                                               jp
ld
                                                                              de, #0x307
queue_fg_vector_fn
hl, #eight_bit_countdown
(hl), #0xA0; 'á'
                                                                                                                                                          ; display_message_07 "HOW HIGH CAN YOU GET"
                                                               call
ld
                                                               ld
0C8D 23
0C8E 34
0C8F 34
                                                               inc
inc
inc
                                                                              (hl)
(hl)
0C8F 34
0C90 C9
0C91
0C91
0C91
0C91 DF
                                                               ret
                                                                                                                                                           ; DATA XREF: 0000:0716<sup>†</sup>o ; wait for 8-bit countdown
                                wait init and draw level:
0C91 DF

0C92

0C92

0C92 CD 74 08

0C95 AF

0C96 32 8C 63

0C99 11 01 05

0C9C CD 9F 30

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

0C9F 21 86 7D

0CA2 36 00

0CA4 23

0CA5 36 01

0CA7 3A 27 62

0CAA 3D

0CAB CA D4 0C
                                                                              hl, #palette_bank (hl), #0
                                                               ld
                                                               ld
                                                               inc
                                                                              (hl), #1
                                                                                                                                                           ; select palette bank 2
                                                               1d
                                                               ld
dec
jp
                                                                              a, (level_type)
                                                                                                                                                          ; barrel level?
; yes, skip
; cement pie level?
; yes, skip
; elevator level?
                                                                              Z, draw_barrel_level
OCAE CA D4 OC
OCAE 3D
OCAF CA DF OC
OCB2 3D
OCB3 CA F2 OC
OCB6 CD 43 OD
OCB9 21 86 7D
OCBC 36 O1
                                                               dec
                                                               jp
dec
                                                                              Z, draw_cement_pie_level
                                                                              a
Z, draw_elevator_level
draw_rivet_level_top_support
                                                                                                                                                           ; yes, skip
                                                               jp
call
                                                                              draw_rivet_level_top_support
hl, #palette_bank
(hl), #1
a, #0xB
(bg_music), a
de, #rivet_level_tilemap_data
                                                               ld
ld
                                                                                                                                                           ; select palette bank 3
OCBC 36 01

OCBE 3E 0B

OCCO 32 89 60

OCC3 11 8B 3C

OCC6

OCC6

OCC6 CD A7 0D

OCC6

OCC9 3A 27 62
                                                               ld
                                                               14
                                                                                                                                                           ; CODE XREF: 0000:0CDC/j
                                draw_level_tilemap:
                                                                                                                                                           ; 0000:0CEF - i
                                                                              draw_level_background
a, (level_type)
#4
                                                               call
                                                               ld
OCCC FE 04
OCCE CC 00 0D
OCD1 C3 A0 3F
OCD4
                                                               cp
call
                                                                                                                                                           ; rivets?
                                                                               #4
Z, draw_8_rivets
init_level_data_tmrs_spr
                                                               jр
0CD4
0CD4
0CD4
0CD7
                                draw_barrel_level:
    ld
    ld
                                                                                                                                                           ; CODE XREF: 0000:0CAB<sup>†</sup>j
OCD4
OCD4 11 E4 3A
OCD7 3E 08
OCD9 32 89 60
OCDC C3 C6 OC
OCDF
                                                                              de, #barrel_level_tilemap_data
                                                                                   #8
                                                                              a, #8 (bg_music),
                                                               ld
                                                                              draw_level_tilemap
                                                               jp
0CDF
0CDF
                                 draw_cement_pie_level:
                                                                                                                                                           ; CODE XREF: 0000:0CAF1i
OCDF
OCDF 11 5D 3B
OCE2 21 86 7D
OCE5 36 01
OCE7 23
OCE8 36 00
OCEA 3E 09
OCEC 32 89 60
                                                                              de, #cement_pie_level_tilemap_data
hl, #palette_bank
(hl), #1
                                                               ld
ld
                                                               ld
                                                                              hl
(hl), #0
a, #9
(bg_music),
                                                                                                                                                           ; select palette #1
                                                               ld
OCEC 32 89 60
OCEF C3 C6 OC
OCF2
OCF2
                                                               1d
                                                                              draw_level_tilemap
OCF2
OCF2
OCF2
CD 27 OD
OCF5 3E OA
OCF7 32 89 60
OCFA 11 E5 3B
OCFD C3 C6 OC
ODOO
                                                                                                                                                          ; CODE XREF: 0000:0CB311
                                 draw_elevator_level:
                                                               call
ld
                                                                              draw_2_elevator_cables
                                                                              a, #0xA
(bg_music), a
de, #elevator_level_tilemap_data
draw_level_tilemap
                                                               ld
                                                               ld
                                                               jр
                                                               SUBROUTINE
0D00
0D00
0D00
0D00
0D00
0D00 06 08
0D02 21 17 0D
0D05
0D05
                                                                                                                                                           ; CODE XREF: 0000:0CCE<sup>†</sup>p; 8 rivets
                                draw_8_rivets:
                                                                              b, #8
hl, #rivet_loc_tbl
                                                               ld
                                draw_rivet:
                                                                                                                                                           ; CODE XREF: draw_8_rivets+14|j
0D05 3E B8
0D07 0E 02
0D09 5E
0D0A 23
                                                                             a, #0xB8 ; '©'
c, #2
e, (h1)
h1
                                                               1d
                                                                                                                                                           ; top of rivet tile
; 2 tiles/rivet (vertical)
                                                               ld
ld
                                                               inc
                                                                             d, (hl)
0D0A 23
0D0B 56
0D0C 23
0D0D
                                                               ld
                                                                                                                                                           ; get VRAM location
                                                                                                                                                           ; CODE XREF: draw_8_rivets+11|j
0D0D
                                loc 0 D0D:
0D0D 12
0D0E 3D
0D0F 13
                                                              ld
dec
inc
dec
                                                                                                                                                           ; draw rivet tile
; next rivet tile
; next VRAM location
                                                                              (de), a
```

done a rivet?

no, loop loop through 8 rivets

; DATA XREF: draw_8_rivets+2[†]o ; Rivets level, location of rivets

de

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

jp djnz ret ; End of function draw_8 rivets

rivet_loc_tbl: .dw VRAM_start+0x2CA

NZ, loc_0_D0D draw_rivet

0D0F 13 0D10 0D 0D11 C2 0D 0D 0D14 10 EF 0D16 C9 0D16

0D16 0D16 0D16 0D17 CA 76

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

0D1F 2A 75

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
                                                        .dw VRAM_start+0x12F
  0D23 34 75
0D25 39 75
0D27
0D27
0D27
0D27
0D27
0D27
0D27 21 0D
  0D23
          34 75
                                                         .dw VRAM start+0x134
                                                         .dw VRAM_start+0x139
                                                       SUBROUTINE
0D27 21 0D 77
0D2A CD 30 0D
0D2D 21 0D 76
0D2D
0D2D
0D30
                                                                                                                                       ; CODE XREF: 0000:0CF2\p
                              draw_2_elevator_cables:
                                                                     hl, #VRAM_start+0x30D
                                                        ld
call
                              call draw_elevator_cable
ld hl, #VRAM_start+0x20D
; End of function draw_2_elevator_cables
  0D30
0D30
0D30
0D30
0D30
                                                      SUBROUTINE
  0D30
0D30
0D30 06 11
0D32
                                                                                                                                        ; CODE XREF: draw_2_elevator_cables+3<sup>p</sup>; cable height 17 tiles
                              draw_elevator_cable:
                                                                     b, #17
  0D32 0D32 36 FD 0D32 36 FD 0D34 23 0D35 10 FB 0D37 11 0F 00 0D3A 19 0D3D 0D3D 0D3D 0D3D 0D3D 36 FC 0D3F 23 0D40 10 FB 0D42 C9
                              loc 0 D32:
                                                                                                                                        ; CODE XREF: draw elevator cable+5-i
                                                        ld
inc
                                                                                                                                          vertical bar tile left edge
next row
                                                                      (hl), #0xFD; '2'
                                                                     hl
loc_0_D32
                                                                                                                                        ; loop cable height
                                                        djnz
                                                                     de, #0xF
hl, de
b, #17
                                                        1d
                                                                                                                                       ; next column
; cable height 17 tiles
                                                        add
ld
                                                                                                                                       ; CODE XREF: draw_elevator_cable+10|j
; vertical bar tile right edge
; next row
; loop cable height
                              loc_0_D3D:
                                                        ld
                                                                      (hl), #0xFC; '3'
                                                        inc
djnz
                                                                     hl
loc_0_D3D
  0D42 C9
0D42
0D42
0D43
                              ret
; End of function draw_elevator_cable
  0D43
0D43
0D43
                              ; SUBROUTINE
  0D43
                                                                                                                                       ; CODE XREF: 0000:0CB61p
                              draw_rivet_level_top_support:
                              draw_rivet_level_top_support.

ld hl, #VRAM_start+0x287
call draw_support_bars
ld hl, #VRAM_start+0x147
; End of function draw_rivet_level_top_support
  0D43 21 87 76
0D46 CD 4C 0D
0D49 21 47 75
  0D49 21 47

0D49

0D49

0D4C

0D4C
                                     SUBROUTINE
                                                                                                                                          CODE XREF: draw_rivet_level_top_support+31p
                              draw_support_bars
                                                                     b, #4
                                                        ld
                                                                                                                                        ; 4 rows to draw
  0D4E
0D4E
0D4E 36 FD
                              loc_0_D4E:
                                                                                                                                          CODE XREF: draw_support_bars+5|j vertical bar tile left edge
                                                                      (hl), #0xFD; '2'
                                                        ld
  0D4E 36 FD

0D50 23

0D51 10 FB

0D53 11 1C 00

0D56 19

0D57 06 04

0D59

0D59

0D59 36 FC
                                                                     h1
                                                                                                                                        ; next row
                                                        djnz
ld
                                                                      loc_0_D4E
                                                                     de, #0x10
hl, de
                                                        add
                                                                                                                                        ; next column
                                                        ld
                                                                     b, #4
                                                                                                                                        ; 4 rows to draw
                                                                                                                                       ; CODE XREF: draw_support_bars+10|j
; vertical bar tile right edge
                              loc_0_D59:
                                                                      (hl), #0xFC; '3'
                                                        1d
  0D5B 23
                                                                                                                                        ; next row
  0D5C 10 FB
0D5E C9
                                                        djnz
                                                                     loc_0_D59
  0D5E
                              ; End of function draw_support_bars
  OD5E
  OD5F
OD5F
  0D5F
                              init_level_data_tmrs_spr_cont:
                                                                                                                                       ; CODE XREF: 0000:3FA3-1
  OD5F CD 56 OF OD62 CD 41 24 OD65 21 09 60 OD68 36 40 OD6A 23 OD6B 34 OD6C 21 5C 38
                                                                     initialise_level_data_and_timers
sub_0_2441
hl, #eight_bit_countdown
(hl), #0x40; '@'
                                                        call
                                                        ld
                                                        1d
                                                        inc
inc
ld
                                                                     hl
(hl)
                                                                                                                                       ; main_sequencer
; next sequence (2)
                                                                     hl, #dk normal spr
  0D6F CD 4E 00
0D72 11 00 69
0D75 01 08 00
0D78 ED B0
                                                        call
ld
ld
                                                                     copy_sprites_2_11_data
de, #soft_sprite_ram
bc, #8
                                                                                                                                       ; sprites 0,1 ; 8 bytes to copy
                                                                                                                                        ; copy pauline sprite
                                                        ldir
  0D7A 3A 27 62
0D7D FE 04
0D7F 28 0A
                                                        ld
cp
                                                                     a, (level_type)
#4
                                                                                                                                       ; rivets?
; yes, skip
  0D7D FE 04

0D7F 28 0A

0D81 0F

0D82 0F

0D83 D8

0D84 21 0B 69

0D87 0E FC
                                                                     Z, adj_pauline_kong_for_rivets
                                                        jr
                                                        rrca
                                                        rrca
ret
                                                                                                                                        ; level 2/3?
                                                                                                                                           hl, #soft_sprite_ram+0xB
                                                        ld
ld
                                                                          #0xFC
  0D89 FF
0D8A C9
0D8B
                                                                     0x38
                                                                                                                                        ; subtract 4 from x coord for 10 sprites
  0D8B
0D8B
0D8B 21 08 69
0D8E 0E 44
                                                                                                                                       ; CODE XREF: 0000:0D7F<sup>†</sup>j; sprite #2 (Kong), xcoord
                              adj_pauline_kong_for_rivets:
                                                                     hl, #soft_sprite_ram+8
c, #68
                                                        ld
ld
                                                                     c, #6
  ODBE 0E 44
OD90 FF
OD91 11 04 00
OD94 01 10 02
OD97 21 00 69
OD9A CD 3D 00
OD9D 01 F8 02
ODAO 21 03 69
                                                        rst
                                                                                                                                       ; add 68 to x coord for 10 sprites
                                                        ld
ld
                                                                     de, #4
bc, #0x210
                                                                           #soft sprite ram
```

ld

ODA3 CD 3D 00 ODA6 C9 ODA7 ODA7

0DA7 0DA8 32 B3 63 0DAB FE AA

ODAD C8

0DAE 13

0DA7 0DA7 0DA7 0DA7 1A call ld ld

call

14

ld

ср

ret

draw_level_background:

SUBROUTINE ...

(de)

#0xAA ;

(segment_type), a

add_c_sprite_register_xB bc, #0x2F8 hl, #soft_sprite_ram+3

add_c_sprite_register_xB

```
CODE XREF: display_1UP+421p
0000:0B4B1p ...
get flag
store for later
done?
yes, return
next table address
```

; sprite #0 (Pauline), y coord

; sprite #0 (Pauline), x coord

```
ODAF 1A
                                                     ld
                                                                  a, (de)
                                                                                                                                     get byte
0DB0 67
                                                     ld
                                                                  h.
0DB0 67
0DB1 44
0DB2 13
0DB3 1A
0DB4 6F
0DB5 4D
                                                     ld
inc
                                                                 b, h
de
                                                                                                                                     B=Y1
                                                                                                                                     next table address
get byte
                                                                 a, (de)
1, a
                                                     1d
                                                                                                                                     L=X1
                                                                      a
1
0DB5 4D
0DB6 D5
0DB7 CD
                                                     ld
                                                                                                                                  : C=X1
                                                                 get_tilemap_addr_from_coords
de
                                                     push
        CD F0 2F
                                                     call
                                                     pop
ld
ld
ODBA D1
0DBB 22 AB 63
0DBE 78
                                                                  (segment_addr_1), hl
                                                                                                                                 ; store vram address #1
0DBF E6 07
                                                     and
ODC1 32 B4 63
ODC4 79
ODC5 E6 07
ODC7 32 AF 63
                                                     1d
                                                                  (tile_byte_1), a
                                                     ld
                                                     and
ld
                                                                  (start tile index), a
                                                     inc
ld
ld
                                                                                                                                  ; next table entry
; Y2
; H=Y2
0DCA 13
ODCB 1A
ODCC 67
ODCD 90
                                                                 a, (de)
h, a
                                                                                                                                    calc delta Y
                                                     sub
0DCE D2 D3 0D
0DD1 ED 44
                                                     jp
neg
                                                                  NC, loc_0_DD3
                                                                                                                                  ; CODE XREF: draw_level_background+27<sup>†</sup>j
0DD3
                           loc 0 DD3:
ODD3 32 B1 63
ODD6 13
ODD7 1A
ODD8 6F
                                                     ld
inc
                                                                 (dY), a
de
                                                                 a, (de)
1, a
                                                     ld
                                                                                                                                  ; X2
                                                                                                                                  ; T.=X2
                                                     14
0DD8 6F
0DD9 91
0DDA 32 B2 63
0DDD 1A
                                                     sub
ld
ld
                                                                                                                                  ; calc delta X
                                                                  (dX), a
a, (de)
#7
                                                                                                                                  ; X2 (again)
ODDD 1A
ODDE E6 07
ODE0 32 B0 63
ODE3 D5
ODE4 CD F0 2F
                                                     and
ld
                                                                                                                                  ; TILE bits only
                                                                   (end_tile_index), a
                                                     push
                                                                  get tilemap addr from coords
                                                     call
ODE7 D1
ODE8 22 AD 63
ODEB 3A B3 63
                                                     pop
ld
ld
                                                                                                                                  ; store vram address #2
; flag
; >=2?
                                                                  (segment_addr_2), hl
                                                                  a, (segment_type)
ODEE FE 02
ODF0 F2 4F 0E
ODF3
ODF3
                                                     cp
jp
                                                                  P, draw_girder_segment
                                                                                                                                  ; yes, skip
                           draw ladder segment:
ODF3 3A B2 63
ODF6 D6 10
ODF8 47
                                                     ld
                                                                      (dx)
                                                     sub
ld
                                                                                                                                  ; calc starting tile index adjustment
                                                                 a, (start_tile_index)
a, b
ODF9 3A AF 63
                                                     ld
ODEC 80
                                                     add
                                                                                                                                  ; adjust
0DFC 80
0DFD 32 B2 63
0E00 3A AF 63
0E03 C6 F0
                                                                 (dX), a
a, (start_tile_index)
a, #0xF0 ; '-'
                                                     ld
ld
                                                                                                                                  ; girder top, no ladder above
                                                     add
0E05 2A AB 63
0E08 77
0E09 2C
                                                     ld
ld
                                                                   hl, (segment_addr_1)
(hl), a
                                                                                                                                  ; display tile
                                                                                                                                  ; next row ; matching ladder tile ; display it
                                                     inc
                                                                  #0x30 ; '0'
0E0A D6 30
0E0C 77
                                                     sub
ld
ld
                                                                  (hl), a
a, (segment_type)
#1
0E0C 77
0E0D 3A B3 63
0E10 FE 01
                                                                                                                                  ; broken ladder?
                                                     ср
0E12 C2 19 0E
0E15 AF
0E16 32 B2 63
0E19
                                                                  NZ, next_tile_in_ladder_segment
                                                                                                                                 ; no, skip
; flag end-of-ladder
                                                                  (dX), a
                                                                                                                                 ; CODE XREF: draw_level_background+6Bfj
; draw_level_background+80fj
0E19
                           next_tile_in_ladder_segment:
0E19 3A B2 63
0E19
0E1C D6 08
0E1E 32 B2 63
                                                                                                                                  ; finished ladder?
                                                     sub
                                                                  (dx)
                                                     14
                                                                 C, loc_0_E2A
0E1E 32 B2 63
0E21 DA 2A 0E
0E24 2C
0E25 36 C0
0E27 C3 19 0E
0E2A
0E2A
                                                     jp
                                                                                                                                  ; next row
; full ladder tile
; loop for ladder
                                                                  (hl), #0xC0 ; 'L'
                                                     ld
                                                                  next_tile_in_ladder_segment
0E2A
0E2A 3A B0 63
0E2D C6 D0
0E2F 2A AD 63
                           loc_0_E2A:
                                                                                                                                 ; CODE XREF: draw_level_background+7Afj
                                                     ld
add
                                                                  a, (end_tile_index)
                                                                                                                                  ; girder top, bottom of ladder
; vram address
                                                                  a, #0xD0 ; 'ŏ'
hl, (segment_addr_2)
                                                     ld
0E32 77
0E33 3A B3 63
0E36 FE 01
0E38 C2 3F 0E
                                                                  a, (segment_type)
                                                     ld
ld
                                                                  (h1)
                                                                                                                                  ; broken ladder?
                                                     ср
                                                                  NZ. loc 0 E3F
                                                                                                                                  ; no, skip
; row above
; display full ladder tile
; re-adjust row
                                                     jp
dec
0E36 C2 SF
0E3B 2D
0E3C 36 C0
0E3E 2C
                                                     ld
                                                                  (hl), #0xC0 ; 'L'
                                                     inc
0E3F
                           loc_0_E3F:
                                                                                                                                  ; CODE XREF: draw_level_background+91^j
                                                                  a, (end_tile_index)
0E42 FE 00
0E42 FE 00
0E44 CA 4B 0E
0E47 C6 E0
0E49 2C
0E48 77
                                                                                                                                  ; 2nd tile (below) req'd?
                                                     cp
jp
add
inc
ld
                                                                 Z, loc_0_E4B
                                                                                                                                  ; no, skip; bottom of girder, no ladder below; next row; display tile
                                                                  (hl), a
0E4B
0E4B
0E4B 13
0E4C C3 A7 0D
                           loc_0_E4B:
                                                                                                                                  ; CODE XREF: draw_level_background+9D^j
                                                                                                                                  ; next entry
; loop through level data
                                                                  draw level background
0E4F
0E4F
0E4F
                           draw_girder_segment:
                                                                                                                                 ; CODE XREF: draw_level_background+49^j
                                                                  a, (segment_type)
#2
0E4F 3A B3 63
                                                     ld
0E4F 3A B3 63
0E52 FE 02
0E54 C2 E8 0E
0E57 3A AF 63
0E5A C6 F0
0E5C 32 B5 63
0E5F 2A AB 63
                                                                                                                                  ; girder?
; no, skip
                                                                 #2
NZ, draw_conveyor_segment
a, (start_tile_index)
a, #0xF0; '-'
(current_tile_in_segment), a
hl, (segment_addr_1)
                                                     jp
ld
                                                                                                                                  ; girder top (no ladder above)
; initialise girder segment tile
; 'from' address
                                                     add
                                                                                                                                 ; CODE XREF: draw_level_background+E5|;
; draw_level_background+125|; ...
0E62
                           next_tile_in_girder_segment:
0E62 3A B5 63
0E62
                                                                       (current_tile_in_segment)
0E65 77
                                                                  (hl), a
                                                                                                                                 ; display it
; next row
                                                     ld
0E66 23
0E67 7D
0E68 E6 1F
                                                                 hl
a, l
#0x1F
                                                     ld
                                                                                                                                 ; bottom of screen?
; yes, skip
                                                     and
0E6A CA 78 0E
0E6D 3A B5 63
                                                                  Z. loc 0 E78
                                                     jp
ld
                                                                  a, (current_tile_in_segment)
```

```
; yes, skip
; get matching bottom piece
; display it
                                                                                                                                        ; CODE XREF: draw_level_background+C3fj
; draw_level_background+CBfj
0E7C 3A B1 63

0E7F D6 08

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
                                                       sub
jp
ld
                                                                                                                                        ; finished? (ignore [2:0])
; yes, skip
                                                                          next_segment
                                                                     (dY)
                                                                     a, (dX)
#0
                                                       ld
                                                                                                                                        ; angled?
; no, loop
                                                        ср
                                                                    Z, next_tile_in_girder_segment
a, (current_tile_in_segment)
                                                       jp
ld
0E8F 3A B5 63
0E92 77
0E93 23
0E94 7D
0E95 E6 1F
0E97 CA A0 0E
0E9A 3A B5 63
0E9D D6 10
                                                       ld
inc
                                                                     (hl), a
                                                                                                                                        ; display it
; next row
                                                                                                                                        ; bottom of screen?
; yes, skip
                                                       and
                                                                     #0x1F
                                                                     z, loc_0_EA0
a, (current_tile_in_segment)
#0x10
                                                                                                                                        ; get matching bottom piece
; display it
                                                       sub
0E9F 77
                                                       ld
                                                                     (hl), a
0EA0
0EA0
0EA0 01 1F 00
                                                                                                                                        ; CODE XREF: draw_level_background+F0^j
                             loc_0_EA0:
                                                                    bc, #0x1F
h1, bc
a, (dY)
#8
                                                       ld
0EA3 09
0EA4 3A B1 63
0EA7 D6 08
0EA9 DA CF 0E
                                                       add
                                                                                                                                        ; next column
                                                       ld
sub
                                                                                                                                        ; finished? (ignore [2:0])
; yes, skip
                                                                         next_segment
                                                       jp
ld
ld
bit
0EAC 32 B1 63
0EAF 3A B2 63
0EB2 CB 7F
0EB4 C2 D3 0E
                                                                     (dY), a
a, (dX)
                                                                                                                                        ; sloping up?
; no, skip
                                                       jp
ld
ind
ld
                                                                     NZ, girder sloping down
0EB4 C2 D3 0E
0EB7 3A B5 63
0EBA 3C
0EBB 32 B5 63
                                                                     a, (current_tile_in_segment)
                                                                     (current_tile_in_segment), a
0EBB 52 B5 63

0EBC 72 C9 0E

0EC3 23

0EC4 3E F0

0EC6 32 B5 63
                                                       cp
jp
inc
                                                                                                                                        ; time to wrap tile?
; no, skip
; next row
; init current tile
                                                                     #0xF8
                                                                    NZ, loc_0_EC9
                                                                    hl
a, #0xF0 ; '-'
(current_tile_in_segment), a
                                                       ld
                                                       ld
                            loc_0_EC9:
                                                                                                                                        ; CODE XREF: draw_level_background+119<sup>†</sup>j
0EC9 7D
                                                       ld
OECA E6 1F
                                                        and
                                                                                                                                        ; bottom of screen?
0ECC C2 62 0E
0ECF
                                                                     NZ, next_tile_in_girder_segment
                                                       jp
                                                                                                                                        ; CODE XREF: draw_level_background+DA<sup>†</sup>j
; draw_level_background+102<sup>†</sup>j ...
; next entry
; loop for all entries
0ECF
                            next_segment:
0ECF 13
OECF
OECF
OEDO C3 A7 OD
                                                                     draw_level_background
                                                       qį
0ED3
0ED3
0ED3
0ED3 3A B5 63
                            girder_sloping_down:
                                                                                                                                        ; CODE XREF: draw_level_background+10D<sup>†</sup> j
                                                                     a, (current_tile_in_segment)
                                                       ld
0ED3 3A B5 63
0ED6 3D
0ED7 32 B5 63
0EDA FE F0
0EDC F2 E5 0E
0EDF 2B
                                                                                                                                        ; next tile in sequence is -1
                                                       ld
cp
                                                                      (current_tile_in_segment), a
                                                                                                                                        ; time to wrap tile?
                                                                    #0xF0; '-'
P, loc_0_EE5
hl
                                                       jp
dec
                                                                                                                                        ; no, skip
; next row
                                                       ld
ld
                                                                         #0vF7 :
                                                                     a, #0xF7 ; ','
(current_tile_in_segment), a
0EE5
                                                                                                                                        ; CODE XREF: draw_level_background+135<sup>†</sup>j
; loop
0EE5
                            loc_0_EE5:
0EE5 C3 62 0E
0EE8
                                                                     next_tile_in_girder_segment
                                                       jp
0EE8
0EE8
0EE8
0EE8 3A B3 63
0EEB FE 03
0EED C2 1B 0F
0EF0 2A AB 63
0EF3 3E B3
0EF5 77
                            a, (segment_type)
#3
                                                                                                                                        ; CODE XREF: draw_level_background+AD^j
                                                                                                                                        ; conveyor?
                                                       ср
                                                                    #3
NZ, draw_other_segments
hl, (segment_addr_1)
a, #0xB3; '|'
(hl), a
bc, #0x20; ''
hl, bc
a, (dY)
#0x10
                                                       jp
ld
ld
ld
                                                                                                                                        ; no, skip
                                                                                                                                        ; empty tile!?!
; display it
0EF6 01 20 00
0EF9 09
0EFA 3A B1 63
0EFD D6 10
                                                       ld
add
ld
                                                                                                                                        ; next column
                                                                     a, (d: #0x10
                                                                                                                                        ; 2nd last tile?
                                                       sub
OEFF
OEFF
OEFF DA 14 OF
                             next_tile_on_coneyor_segment:
                                                                                                                                        ; CODE XREF: draw_level_background+16A|j
                                                                    gment.
C, end_of_conveyor_segment
(dY), a
a, #0xB1; '
(h1), a
bc, #0x20; '
h1, bc
                                                                                                                                        ; yes, skip
                                                       jp
ld
0F02 32 B1 63
0F05 3E B1
0F07 77
0F02 32 B1 63

0F05 3E B1

0F07 77

0F08 01 20 00

0F0B 09

0F0C 3A B1 63

0F0F D6 08

0F11 C3 FF 0E
                                                       ld
ld
                                                                                                                                        ; conveyor tile
; display it
                                                       ld
                                                                                                                                        ; next column
                                                       add
                                                                     a, (dY)
#8
                                                       ld
sub
                                                                     next_tile_on_coneyor_segment
                                                                                                                                        ; loop through conveyor
                                                       qį
0F14
0F14
0F14
0F14 3E B2
                                                                                                                                           CODE XREF: draw_level_background+158<sup>†</sup> j
                             end_of_conveyor_segment:
                                                                         #0xB2 ; '
                                                       ld
                                                                                                                                        ; end of conveyor
0F14 3E B2
0F16 77
0F17 13
0F18 C3 A7 0D
                                                       ld
inc
                                                                     (hl), a
                                                                                                                                        ; display it
                                                                     draw_level_background
                                                                                                                                        ; return
                                                       jр
0F1B
0F1B
0F1B
0F1B
                                                                                                                                        ; CODE XREF: draw_level_background+146<sup>†</sup>j
                            draw_other_segments:
        3A B3 63
                                                       ld
                                                                     a, (segment type)
                                                       cp
jp
                                                                                                                                        ; valid segment?
0F1E FE 07
                                                                                                                                        , valid segment?
; no, continue
; blank?
; yes, skip
; rivet level girder?
       F2 CF OE
FE 04
                                                                         next_segment
                                                       ср
                                                                    Z, draw_blank_segment #5
0F25 CA 4C 0F
0F28 FE 05
                                                       jp
cp
                                                                                                                                        ; yes, skip
; oil barrel stand (conveyor level)
0F2A CA 51 0F
0F2D 3E FE
                                                                     Z, draw_rivet_level_girder
a, #0xFE; '
0F2F
                                                                                                                                        ; CODE XREF: draw_level_background+1A7|;
; draw_level_background+1AC|;
0F2F
0F2F 32 B5 63
0F2F
                            loc_0_F2F:
                                                                     (current_tile_in_segment), a
0F32 2A AB 63
0F35
                                                       1d
                                                                     hl, (segment addr 1)
```

```
; CODE XREF: draw_level_background+19E|j
                            next_other_segment_tile:
0F35 3A B5 63
                                                      ld
                                                                        (current_tile_in_segment)
0F38 77
0F39 01 20 00
0F3C 09
                                                                   (h1), a
bc, #0x20; ''h1, bc
                                                      ld
                                                                                                                                    ; display tile
                                                      ld
add
                                                                                                                                    ; next column
0F3D 3A B1 63
                                                      ld
                                                                   a, (dY)
#8
0F40 D6 08
0F42 32 B1 63
0F45 D2 35 0F
                                                      sub
                                                                                                                                     ; done?
                                                                   (dY), a
NC, next_other_segment_tile
                                                      ld
                                                                                                                                     ; no, loop
; next entry
                                                      jp
inc
0F48 13
0F49 C3 A7 0D
0F4C
0F4C
                                                                   draw_level_background
0F4C
0F4C 3E E0
0F4E C3 2F 0F
                            draw_blank_segment:
                                                                                                                                     ; CODE XREF: draw_level_background+17E<sup>†</sup> j
                                                                      , #0xE0 ; 'Ó'
                                                                   loc_0_F2F
                                                      jр
0F51
0F51
0F51 3E B0
0F53 C3 2F 0F
                                                                                                                                     ; CODE XREF: draw_level_background+183^{\dagger} j ; rivet level girder
                            a, #0xB0 ; '\"'
loc_0_F2F
                                                      jр
                            ; End of function draw_level_background
0F56
0F56
0F56
0F56 06 27
0F58 21 00 62
0F5B AF
0F5C
0F5C 77
                            initialise_level_data_and_timers:
    ld b, #39
                                                                                                                                     ; CODE XREF: 0000:0D5F1p
                                                                   b, #39
hl, #mario_alive_flag
                                                      ld
                                                      xor
                            loc_0_F5C:
                                                                                                                                     ; CODE XREF: 0000:0F5E|j
                                                      ld
                                                                   (hl), a
0F5D 2C
0F5E 10 FC
0F60 0E 11
0F62 16 80
                                                      djnz
ld
                                                                   loc_0_F5C
                                                                                                                                     ; clear 39 bytes
                                                                   c, #17
d, #128
hl, #unk_0_6280
                                                      ld
0F64 21 80 62
0F67
0F67
                                                      ld
                                                                                                                                     ; $6280-$6AFF cleared
                           loc_0_F67:
                                                                                                                                     ; CODE XREF: 0000:0F6D|j
0F67
0F67
0F68
0F68
0F68
0F69
23
0F6A
10
0F6C
0D
                                                      ld
                                                                   b. d
                                                                                                                                     ; 128 bytes to clear
                                                                                                                                     ; CODE XREF: 0000:0F6A/j; clear byte
                            loc_0_F68:
                                                                   (hl), a
                                                      1d
                                                      djnz
dec
jr
ld
                                                                    loc_0_F68
                                                                                                                                     ; clear 128 bytes
                                                                  C
NZ, loc_0_F67
hl, #level_init_data
de, #unk_0_6280
bc, #64
0F6C 0D
0F6D 20 F8
0F6F 21 9C 3D
0F72 11 80 62
0F75 01 40 00
0F78 ED B0
                                                                                                                                    ; clear 17*128=2176($880) bytes
                                                      ld
ld
                                                      ldir
                                                                                                                                    ; init 64 bytes
0F78 ED B0
0F7A 3A 29 62
0F7D 47
0F7E A7
0F7F 17
0F80 A7
0F81 17
0F82 A7
                                                      ld
ld
                                                                   a, (level)
                                                      and
                                                                   a
                                                      rla
and
rla
                                                                                                                                     ; level * 2
                                                                   a
                                                                                                                                     ; level * 4
                                                                   a
                                                      and
0F83 17
0F84 80
0F85 80
0F86 C6 28
                                                      rla
add
add
                                                                                                                                     ; level * 8
; level * 9
; level * 10
; level * 10 + 40
                                                                   a, b
a, b
                                                                   a, #40
#81
                                                      add
0F88 FE 51
0F8A 38 02
0F8C 3E 50
                                                      cp
jr
ld
                                                                                                                                     ; max?
                                                                   C, loc_0_F8E
a, #80
                                                                                                                                       no, skip
max out at 80
OF8E
0F8E
0F8E
0F8E 21 B0 62
0F91 06 03
0F93
0F93
0F93 77
0F94 2C
0F95 10 FC
0F97 87
0F98 47
0F99 3E DC
0F98 90
                            loc_0_F8E:
                                                                                                                                     ; CODE XREF: 0000:0F8A1i
                                                                   hl, #unk_0_62B0
b, #3
                                                      ld
ld
                                                                                                                                     ; 3 timers to initialise
                            loc_0_F93:
                                                                                                                                     ; CODE XREF: 0000:0F95-j
                                                                                                                                     ; store timer value; next timer; loop for 3 timers; level * 20 + 80
                                                                    (hl), a
                                                      inc
                                                      djnz
                                                                   loc_0_F93
                                                      add
ld
                                                                   a, a
b, a
a, #220
                                                      ld
0F9B 90
0F9C FE 28
0F9E 30 02
0FAO 3E 28
                                                      sub
cp
                                                                                                                                     ; 220-(level*20+80)=140-level*20
                                                                    ±40
                                                                                                                                     ; no, skip
; set min=40
                                                                   NC, loc_0_FA2
                                                      jr
ld
0FA0 3E 28

0FA2

0FA2 77

0FA3 2C

0FA4 77

0FA5 21 09 62

0FA8 36 04

0FAB 36 08

0FAB 36 08

0FAD 3A 27 62

0FB0 4F

0FB1 CB 57
                                                                   a. #40
                            loc_0_FA2:
                                                                                                                                     ; CODE XREF: 0000:0F9E↑j
                                                                   (hl), a
                                                      ld
                                                                                                                                     ; set timer
; next timer
                                                      inc
                                                                   (hl), a
hl, #unk_0_6209
(hl), #4
                                                      ld
ld
                                                      ld
inc
                                                      ld
ld
                                                                    (hl), #8
                                                                        (level_type)
                                                                   a, (:
c, a
                                                      ld
OFB0 4F
OFB1 CB 57
OFB3 20 16
OFB5 21 00 6A
OFB8 3E 4F
                                                      bit
jr
ld
                                                                                                                                     ; rivets level?
; yes, skip
; sprite #64, y coord
; sprite X position
                                                                   NZ, loc_0_FCB
hl, #soft_sprite_ram+0x100
                                                                   a, #0x4F;
b, #3
                                                      ld
                                                                                      '0'
0FBA 06 03
0FBC
0FBC 77
                                                      ld
                                                                                                                                     ; 3 sprites to draw
                                                                                                                                     ; CODE XREF: 0000:0FC9|j; set sprite X pos
                            erase_top_of_kong_ladder:
                                                      ld
                                                                    (hl), a
0FBC 77
0FBD 2C
0FBE 36 3A
0FCO 2C
0FC1 36 0F
0FC3 2C
0FC4 36 18
0FC6 2C
0FC7 C6 10
                                                       ld
                                                                    (hl), #0x3A ; ':'
                                                                                                                                     ; set sprite tile (blank)
                                                      inc
                                                                    (h1), #0xF
                                                                                                                                     ; set sprite colour
                                                      ld
                                                      inc
ld
                                                                    (hl), #0x18
                                                                                                                                     ; set sprite Y pos
                                                                    a. #0x10
                                                      add
                                                                                                                                     ; next X pos
                                                      djnz
                                                                    erase_top_of_kong_ladder
                                                                                                                                     ; loop for 3 sprites
                                                                                                                                     ; CODE XREF: 0000:0FB311
0FCB
                           loc_0_FCB:
OFCB 79
OFCC EF
OFCC
                                                      14
                                                                                                                                     ; level type
                                                                   a, c
0x28
0FCD 00 00
                                                       .dw RESET
                                                                                                                                     ; Jump table
OFCF D7 OF
                                                       .dw init_l1_girder
```

```
0FD1 1F 10
0FD3 87 10
                                                                                                             .dw init_12_cement
                                                                                                             .dw init_13_elevator
.dw init_14_rivets
 0FD5 37 10
0FD5 31 11
0FD7
0FD7
0FD7
                                                                                                                                                                                                                                                                          ; DATA XREF: 0000:0FCF\0
                                                       init_l1_girder:
 0FD7 21 DC 3D
0FDA 11 A8 69
0FDD 01 10 00
                                                                                                                                      hl, #top_barrel_spr
de, #soft_sprite_ram+0xA8
bc, #0x10
                                                                                                             14
                                                                                                                                                                                                                                                                          ; sprite #42, Y coord
; data for 4 sprites
; init
                                                                                                             ld
 0FE0 ED B0
0FE2 21 EC 3D
0FE5 11 07 64
0FE8 0E 1C
                                                                                                             ldir
                                                                                                                                       hl, #fireball_spr
de, #unk_0_6407
c, #0x1C
b, #5
                                                                                                             ld
ld
                                                                                                                                                                                                                                                                         ; offset of each sprite; do 5 sprites
                                                                                                             ld
 0FEA 06 05
0FEC CD 2A 12
0FEF 21 F4 3D
0FF2 CD FA 11
                                                                                                             ld
                                                                                                                                      b, #5
init_data_for_B_sprites
hl, #girders_fireball_spr
init_fireball_sprite
hl, #girder_oil_barrel_spr
de, #soft_sprite_ram+0xFC
bc, #4
                                                                                                             call
ld
call
 OFF5 21 00 3E
OFF8 11 FC 69
OFFB 01 04 00
OFFE ED B0
                                                                                                             ld
                                                                                                             ld
ld
                                                                                                                                                                                                                                                                         ; sprite #63
; 1 sprite only
; init sprite
                                                                                                             ldir
  1000 21 0C 3E
1003 CD A6 11
1006
                                                                                                                                       hl, #girder_hammer_locs
init_hammer_sprites
                                                                                                             ld
                                                                                                             call
                                                       loc_0_1006:
  1006
 1006
1006 21 1B 10
1009 11 07 67
100C 01 1C 08
100F CD 2A 12
1012 11 07 68
1015 06 02
1017 CD 2A 12
                                                                                                                                       hl, #barrel_init_data
de, #unk_0_6707
                                                                                                             ld
ld
                                                                                                                                       bc, #0x81C
init_data_for_B_sprites
                                                                                                                                                                                                                                                                         ; 8 sprites, offset $1C
                                                                                                             ld
                                                                                                             call
                                                                                                             ld
ld
                                                                                                                                       de, #unk_0_6807
b, #2
                                                                                                                                                                                                                                                                          ; 2 sprites to copy
                                                                                                                                       init_data_for_B_sprites
                                                                                                             call
 101A C9 ret
101A ;
101B 00 00 02 02 barrel_init_data:.db 0, 0, 2, 2
101F ;
                                                                                                                                                                                                                                                                         ; DATA XREF: 0000:1006†o
101F
101F
101F
101F 21 EC 3D
1022 11 07 64
1025 01 1C 05
1028 CD 2A 12
102B CD 86 11
102E 21 18 3E
1031 11 A7 65
1034 01 0C 06
1037 CD 2A 12
103A DD 21 A0 65
103E 21 B8 69
1041 11 10 00
1044 06 06
1046 CD D3 11
1049 21 FA 3D
104C CD FA 11
104C CD FA 11
                                                                                                                                                                                                                                                                          ; DATA XREF: 0000:0FD1\fo
                                                        init_12_cement:
                                                                                                                                      hl, #fireball_spr
de, #unk_0_6407
bc, #0x51C
init_data_for_B_sprites
                                                                                                             ld
                                                                                                             ld
                                                                                                             ld
call
                                                                                                                                                                                                                                                                          ; 5 sprites, offset 0x1c
                                                                                                                                      init_spring_sprites
init_spring_sprites
hl, #cement_pie_spr
de, #unk_0_65A7
bc, #0x60C
init_data_for_B_sprites
                                                                                                             call
                                                                                                             ld
                                                                                                             ld
ld
                                                                                                                                                                                                                                                                          ; 6 sprites, offset 0x0c
                                                                                                             call
ld
                                                                                                                                       ix, #unk_0_65A0
hl, #soft_sprite_ram+0xB8
de, #0x10
b, #6
                                                                                                             ld
ld
                                                                                                                                                                                                                                                                          ; sprite #46-51
; offset 0x10
; 6 sprites to init
                                                                                                             ld
                                                                                                                                      D, #0
set_B_sprites_data
hl, #cement_fireball_spr
init_fireball_sprite
hl, #cement_oil_barrel_spr
de, #soft_sprite_ram+0xFC
bc, #4
                                                                                                             call
ld
call
  104F 21 04 3E
1052 11 FC 69
1055 01 04 00
1058 ED B0
                                                                                                             ld
ld
ld
ldir
                                                                                                                                                                                                                                                                          ; sprite #63
                                                                                                                                                                                                                                                                          ; init oil barrel sprite
  105A 21 1C 3E
105D 11 44 69
1060 01 08 00
1063 ED B0
                                                                                                             ld
ld
ld
                                                                                                                                       hl, #cement_ladder_spr
de, #soft_sprite_ram+0x44
bc, #8
                                                                                                                                                                                                                                                                          ; sprite #17-18
; 8 bytes = 2 sprits
                                                                                                             ldir
  1063 ED B0
1065 21 24 3E
1068 11 E4 69
106B 01 18 00
                                                                                                                                       hl, #cement_conveyor_spr
de, #soft_sprite_ram+0xE4
bc, #0x18
                                                                                                             ld
                                                                                                             ld
ld
                                                                                                                                                                                                                                                                          ; sprite #57-62
; 0x18 bytes = 6 sprites
 106E ED B0
1070 21 10 3E
1073 CD A6 11
1076 21 3C 3E
1079 11 0C 6A
                                                                                                             ldir
                                                                                                             ld
                                                                                                                                       hl, #cement_hammer_locs
                                                                                                             call
ld
                                                                                                                                       init_hammer_sprites
hl, #cement_obj_spr
de, #soft_sprite_ram+0x10C
                                                                                                                                                                                                                                                                         ; hat, purse & umbrella
; sprites #67-69
; 12 bytes = 3 sprites
                                                                                                             1d
  107C 01 0C
107F ED B0
1081 3E 01
                                                                                                             ld
ldir
                 3E 01
32 B9 62
                                                                                                                                       a, #1
(unk_0_62B9), a
                                                                                                             ld
 1083 32
1086 C9
1087
1087
                                                                                                             1d
1087 | 1087 | 21 EC 3D | 1087 | 21 EC 3D | 1080 | 11 07 64 | 1090 | 10 05 | 1090 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 05 | 10 
                                                        init_13_elevator:
                                                                                                                                                                                                                                                                        ; DATA XREF: 0000:0FD31o
                                                                                                                                       hl, #fireball_spr
de, #unk_0_6407
                                                                                                             ld
                                                                                                             ld
                                                                                                                                       bc. #0x510
                                                                                                                                                                                                                                                                         ; 5 sprites, offset 0x1c
                                                                                                                                      bc, #UXSIC
init_data_for_B_sprites
init_spring_sprites
hl, #unk_0_6600
de, #0x10
a, #1
b, #6
                                                                                                             call
call
ld
                                                                                                             ld
                                                       loc_0_10A0:
                                                                                                                                                                                                                                                                         ; CODE XREF: 0000:10A2-j
                                                                                                             ld
                                                                                                                                         (hl)
                                                                                                                                       (h1), a
h1, de
loc_0_10A0
                                                                                                             djnz
  10A4 0E 02
10A6 3E 08
10A8
10A8
                                                        loc 0 10A8:
                                                                                                                                                                                                                                                                        ; CODE XREF: 0000:10B4-i
 10A8 06 03
10AA 21 0D
10AD
                                                                                                                                       b, #3
hl, #unk_0_660D
                                                                                                                                                                                                                                                                        ; CODE XREF: 0000:10AF-i
  10AD
                                                       loc 0 10AD:
                                                                                                                                       (hl), a
hl, de
loc_0_10AD
  10AD 77
10AD 77
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
                                                                                                             add
djnz
                                                                                                             1ď
                                                                                                                                       a, #8
                                                                                                             dec
jp
ld
ld
                                                                                                                                       NZ, loc_0_10A8
                                                                                                                                       hl, #elevator_spr_locs
de, #unk_0_6603
                                                                                                             ld
call
ld
ld
ld
                                                                                                                                       bc, #0x60E
init_objects_locations
                                                                                                                                                                                                                                                                         ; 6 sprites, offset #0x0c
                21 60 3E
11 07 66
01 0C 06
CD 2A 12
                                                                                                                                       hl, #elevator_spr
de, #unk_0_6607
bc, #0x60C
init_data_for_B_sprites
  10C6
10C9
10CC
                                                                                                                                                                                                                                                                          ; 6 sprites, offset 0x0c
                                                                                                             call
 10CF DD 21 00 66
10D3 21 58 69
                                                                                                                                       ix, #unk_0_6600
hl, #soft_sprite_ram+0x58
                                                                                                             1d
                                                                                                                                                                                                                                                                         ; sprites #22-27
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
  10D6 06 06
                                                                                                                                              ; 6 sprites ; offset 0x10
 10D8 11 10 00
10DB CD D3 11
10DE 21 48 3E
10E1 11 0C 6A
10E7 ED B0
10E7 ED B0
10E9 DD 21 00 64
10ED DD 36 03 58
10F5 DD 36 05 58
10F5 DD 36 05 58
10FD DD 36 07 80
1101 DD 36 23 EB
1109 DD 36 22 EB
1109 DD 36 25 EB
1109 DD 36 25 EB
                                                                         de, #0x10
set_B_sprites_data
hl, #elevator_obj_spr
de, #soft_sprite_ram+0x10C
  10D8
                                                           ld
                                                           call
ld
ld
                                                                                                                                              ; hat, purse & umbrella
; sprites 67-69
; 0x0c bytes = 3 sprites
                                                           ld
                                                                         bc, #0xC
                                                           ldir
                                                                        ix, #unk_0_6400

0(ix), #1

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

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

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

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

0x20(ix), #1

0x23(ix), #0xEB; 'Û'

0x2E(ix), #0xEB; 'Û'

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

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

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

0x2F(ix), #0x60; '''''
                                                           ld
ld
ld
                                                                                                                                              ; fireball character data
                                                           ld
ld
ld
                                                           ld
ld
ld
ld
                                                                                                                                             ; 2nd fireball
  1111 DD 36 2F 60
1115 11 70 69
1118 21 21 11
111B 01 10 00
                                                           ld
ld
ld
                                                                         de, #soft_sprite_ram+0x70
hl, #elevator_cap_spr
                                                                                                                                              ; sprite #28-31
                                                           ld
                                                                         bc. #0x10
                                                                                                                                              ; 0x10 bytes = 4 sprites
 1131
1131
1134
                               init_14_rivets:
                                                                                                                                              ; DATA XREF: 0000:0FD5\o
  1131
1131 21 F0 3D
1134 11 07 64
1137 01 1C 05
113A CD 2A 12
113D 21 14 3E
1140 CD A6 11
                                                                         hl, #rivet_fireball_spr
de, #unk_0_6407
                                                           ld
                                                                         bc, #0x51C
init_data_for_B_sprites
hl, #rivet_hammer_locs
init_hammer_sprites
                                                           1d
                                                                                                                                             ; 5 sprites, offset 0x0c
                                                           call
ld
                                                           call
          21 54
11 0C
01 0C
                    3E
6A
00
                                                           ld
ld
ld
                                                                        hl, #rivet_obj_spr
de, #soft_sprite_ram+0x10C
bc, #0xC
                                                                                                                                              ; sprite #67-69
; 0x0c bytes = 3 sprites
  114C ED B0
                                                           ldir
  114C ED B0

114E 21 82 11

1151 11 A3 64

1154 01 1E 02

1157 CD EC 11

115A 21 7E 11

115D 11 A7 64

1160 01 1C 02
                                                           ld
ld
ld
                                                                        hl, #rivet_unk_obj_locs
de, #unk_0_64A3
                                                                                                                                              ; 2 sprites, offset 0x20
                                                                         bc.
                                                                               #0x21E
                                                                         init objects locations
                                                           call
                                                           ld
ld
                                                                         hl, #rivet_unk_sprites
de, #unk_0_64A7
  115D 11 A7 64
1160 01 1C 02
1163 CD 2A 12
1166 DD 21 A0 64
116A DD 36 00 01
116E DD 36 02 01
1172 21 50 69
1175 06 02
1177 11 20 00
                                                           ld
                                                                               #0x21C
                                                                                                                                              ; 2 sprites, offset $20
                                                           call
ld
ld
                                                                         init_data_for_B_sprites
                                                                         ix, #unk_0_64A0
0(ix), #1
0x20(ix), #1
                                                           ld
                                                                         hl, #soft_sprite_r
b, #2
de, #0x20; ''
                                                           ld
ld
                                                                                                                                              ; sprite #20-21
; 2 sprites
                                                                                \#soft\_sprite\_ram+0x50
                                                                                                                                              ; 2 sprites
; offset 0x20
                                                           ld
  117A CD D3 11
117D C9
                                                           call
                                                                         set_B_sprites_data
  117D ; —
117E 3F 0C 08 08 rivet_unk_sprites:.db 0x3F, 0xC, 8, 8
                                                                                                                                              ; DATA XREF: 0000:115A<sup>†</sup>o
                                                                                                                                              ; transparent squares over kong's legs; DATA XREF: 0000:114E↑o
  1182 73 50 8D 50 rivet_unk_obj_locs:.db 0x73, 0x50, 0x8D, 0x50 1186
                               ; UBROUTINE SUBROUTINE
  1186
                                                                                                                                              ; CODE XREF: 0000:102B<sup>p</sup>; 0000:1093<sup>p</sup>
                              init_spring_sprites:
1186 21 A2 11
                                                                        hl, #elevator_bouncing_spr
de, #unk_0_6507
bc, #0xA0C
                                                           ld
ld
                                                           call
ld
ld
                                                                         init_data_for_B_sprites
                                                                         ix, #unk_0_6500
hl, #soft_sprite_ram+0x80
b, #0xA
                                                                                                                                           ; sprites 20-29
                                                           ld
                                                                               #0x10
                                                           1d
                                                                         de.
  119B 11 10 00
119E CD D3 11
11A1 C9
11A1
                                                           call
                                                                         set_B_sprites_data
                               ret
; End of function init_spring_sprites
  11A1 ; 11A2 3B 00 02 02 elevator_bouncing_spr:.db 0x3B, 0, 2, 2
                                                                                                                                              ; DATA XREF: init_spring_sprites o
  11A6
                                         SUBROUTINE
  11A6
  11A6
11A6
                               init_hammer_sprites:
                                                                                                                                              ; CODE XREF: 0000:10031p
  11A6
  11A6
11A6 11 83 66
11A6 11 83 66
11A9 01 0E 02
11AC CD EC 11
11AF 21 08 3E
11B2 11 87 66
11B5 01 0C 02
                                                                                                                                              ; 0000:1073îp ...
; object XPOS
; 2 sprites, offset=14
                                                                         de, #unk_0_6683
                                                           ld
                                                                         bc, #0x20E
init_objects_locations
                                                           call
                                                           ld
ld
ld
                                                                         hl, #hammer_pickup_spr
de, #unk_0_6687
                                                                                                                                              ; object tile
; 2 sprites, offset inc=0x0C
  11B5 01 C 02

11B8 CD C2A 12

11BB DD 21 80 66

11BF DD 36 00 01

11C3 DD 36 10 01

11C7 21 18 6A

11CA 06 02

11CC CD D3 11
                                                           call
ld
ld
                                                                         init_data_for_B_sprites ix, #unk_0_6680
                                                                         ix, #unk_0_66
0(ix), #1
0x10(ix), #1
                                                           ld
                                                                         hl, #soft_sprite_ram+0x118
b, #2
de, #0x10
                                                           ld
                                                                                                                                           ; sprite #70
                                                           ld
ld
                                                           call
                                                                         set B sprites data
  11D2 C9
11D2
11D2
                               ret
; End of function init_hammer_sprites
  11D3
  11D3
11D3
                                      SUBROUTINE
  11D3
  11D3
                               set_B_sprites_data:
                                                                                                                                                CODE XREF: 0000:1046 p
  11D3 DD 7E 03
11D3
                                                                              3(ix)
                                                                        a, 3(1x
(h1), a
  11D6
                                                           ld
                                                                                                                                              ; set sprite X
                                                                         1
a, 7(ix)
(h1), a
   11D8 DD 7E 07
  11DB
                                                                                                                                              ; set sprite tile
```

ld

11DD DD 7E 08

a, 8(ix)

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
11E0 77
                                                                        (hl), a
                                                                                                                                             ; set sprite vflip/palette
                                                         ld
11E1
                                                         inc
11E1 2C

11E2 DD 7E 05

11E5 77

11E6 2C

11E7 DD 19

11E9 10 E8
                                                                           5(ix)
                                                         1d
                                                                       a, 5(ix (hl), a
                                                                                                                                            ; set sprite Y
                                                                       ix, de
                                                                                                                                            ; next sprite data address
                                                         add
                              djnz set_B_sprite:
    ret
; End of function set_B_sprites_data
                                                                        set_B_sprites_data
 11EB C9
11EB
11EB
11EC
11EC
11EC
                                                       SUBROUTINE
11EC
11EC
11EC 7E
11EC
                                                                                                                                             ; CODE XREF: 0000:10C0\(^p\); 0000:1157\(^p\) ...
                              init_objects_locations:
11EC 11ED 12 11EE 23 11EF 1C 11F0 1C 11F1 7E 11F2 12 11F3 23 11F4 7B 11F5 81 11F6 5F 11F7 10 11F9 C9 11F9 C9
                                                         ld
                                                                            (h1)
                                                         ld
inc
inc
                                                                                                                                             ; copy byte 1
; next source byte
                                                                        (de), a
        23
1C
1C
7E
12
23
7B
81
5F
10 F3
                                                                       e
e
                                                                                                                                             ; skips destination byte
                                                         inc
                                                                       a, (hl)
(de), a
                                                         1d
                                                          ld
                                                                                                                                             ; copy byte 2
; next source byte
                                                         inc
ld
                                                                       hl
                                                                       a, e
a, c
                                                         add
ld
                                                                                                                                             ; add offset to destination ; loop B times
                                                                       init_objects_locations
                                                         djnz
                              ret ; End of function init_objects_locations
11FA
11FA
11FA
11FA
                                               SUBROUTINE
                                                                                                                                            ; CODE XREF: 0000:0FF2\p; 0000:104C\p
11FA
                              init fireball sprite:
11FA DD 21 A0 66
11FA
11FE 11 28 6A
                                                                       ix, #unk_0_66A0
de, #soft_sprite_ram+0x128
0(ix), #1
a, (h1)
                                                         ld
ld
                                                                                                                                             ; sprite #74
1201 DD 36 00 01
                                                         ld
                                                         ld
ld
ld
                                                                       a, (hl)
3(ix), a
1205 7E
1206 DD 77 03
                                                                                                                                             ; Y pos
1209 12
120A 1C
120B 23
120C 7E
                                                                                                                                             ; sprite Y pos
; next sprite register
; next data byte
; flipy,tile
                                                                        (de), a
                                                         inc
                                                         inc
                                                                      a, (hl)
7(ix), a
(de), a
                                                                            (hl)
120D DD 77 07
                                                         ld
ld
inc
inc
1210
1211
1212
        12
1C
23
7E
                                                                                                                                             ; sprite flipy,tile
; next sprite register
; next data byte
                                                                       e
hl
                                                                       nl
a, (hl)
8(ix), a
(de), a
1213
                                                         ld
                                                                                                                                             ; flipx,colour
1214 DD 77 08
1217 12
1218 1C
                                                         ld
ld
                                                                                                                                                sprite flipx,colour
                                                                                                                                             ; next sprite register; next data byte; X pos
                                                         inc
                                                         inc
ld
ld
ld
                                                                       h1
1219
        23
7E
1219 23
121A 7E
121B DD 77 05
121E 12
                                                                       a, (hl)
5(ix), a
(de), a
121E 12
121F 23
1220 7E
                                                                                                                                             ; sprite X pos
                                                         inc
                                                                       hl
                                                                                                                                             ; next data byte
                                                                            (hl)
                                                         ld
ld
                                                                       a, (ni,
9(ix), a
        DD 77 09
                                                                       hl
a, (hl)
0xA(ix), a
                                                                                                                                            ; next data byte
        23
7E
                                                          inc
                                                         ld
1226 DD 77 OA
1229 C9
                                                         ld
ret
                              ; End of function init_fireball_sprite
1229
1229
                              ; SUBROUTINE
122A
122A
122A
122A E5
                                                                                                                                             ; CODE XREF: 0000:0FEC|p; 0000:100F|p ...
                              init_data_for_B_sprites:
122A
122B C5
122C 06 04
122E
                                                         push
                                                                       h1
                                                         push
ld
                                                                       bc
b, #4
                                                                                                                                             ; 4 bytes/sprite
122E
122E
122E 7E
122F 12
1230 23
1231 1C
1232 10
1234 C1
                             loc_0_122E:
                                                                                                                                             ; CODE XREF: init_data_for_B_sprites+8|j
                                                                       a, (hl)
(de), a
                                                         ld
                                                         inc
                                                                       hl
        1C
10 FA
C1
                                                                        e
loc_0_122E
                                                         djnz
                                                                                                                                             ; copy data for 1 sprite
                                                         gog
1234 C1
1235 E1
1236 7B
1237 81
1238 5F
1239 10
                                                         pop
ld
add
                                                                       hl
                                                                                                                                             ; restore source
                                                                       a, e
                                                                                                                                             ; next destination
         5F
10 EF
                                                         ld
                                                                       e, a init_data_for_B_sprites
                                                         djnz
                                                                                                                                             ; do B sprites
123B C9
123B
123B
                              ret; End of function init_data_for_B_sprites
123C
123C
123C
123C
123C DF
                                                                                                                                               DATA XREF: 0000:0718 o 0000:074C o
                              init_mario:
123C DF
123C 3A 27 62
1240 FE 03
1242 01 16 E0
1245 CA 4B 12
1248 01 3F F0
124B
                                                         rst
ld
                                                                       0x18
                                                                                                                                                wait for 8-bit countdown
                                                                       a, (level_type)
                                                                                                                                                elevators?
                                                         cp
ld
                                                                       bc, #0xE016
Z, loc_0_124B
bc, #0xF03F
                                                                                                                                               mario x,y coords
yes, skip
mario x,y coords
                                                                                                                                             ; CODE XREF: 0000:1245<sup>†</sup> i
124B
                             loc_0_124B:
                                                                       ix, #mario_alive_flag
hl, #soft_sprite_ram+0x4C
0(ix), #1
3(ix), c
124B DD 21 00 62
124F 21 4C 69
1252 DD 36 00 01
1256 DD 71 03
                                                         ld
ld
                                                                                                                                                 sprite #19, y coord
                                                                                                                                               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
                                                         ld
ld
```

ld inc

ld inc ld

1d

125B DD 36 07 80

80 1261 2C 1262 DD 36 08 02

125F

1266 36 02 1268 2C

(hl), c

8(ix), #2

(hl), #2

7(ix), #0x80; 'Ç' (h1), #0x80; 'Ç'

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
  1269 DD 70 05
                                                                                                                                                                                                                                                                                ; mario x coord (Y)
; x coord
                                                                                                                ld
                                                                                                                                          5(ix), b
                                                                                                                                         (h1), b

(xF(ix), #1

h1, #main_sequencer

(h1)

de, #0x601
                                                                                                                ld
  126C 70
126D DD 36 0F 01
1271 21 0A 60
1274 34
1275 11 01 06
                                                                                                               ld
ld
inc
                                                                                                                                                                                                                                                                                ; next sequence (3)
; display_lives_and_level
                                                                                                                1d
  1278 CD 9F 30
                                                                                                                call
                                                                                                                                          queue_fg_vector_fn
 1278 CD
127B C9
127C
127C
                                                                                                                ret
 127C
127C CD BD 1D
127C
                                                                                                                                                                                                                                                                                 ; DATA XREF: 0000:071C\u00f10
; 0000:0750\u00f10
                                                         died_in_gameplay:
                                                                                                               call
                                                                                                                                          check_and_handle_bonus
  127F 3A 9D 63
                                                                                                                1d
                                                                                                                                          a, (mario_death_state)
0x28
  1282 EF
1282
                                                                                                                                                                                                                                                                                ; go!
  1283 8B 12
                                                                                                                 .dw delay before spin
                                                                                                                                                                                                                                                                                 ; Jump Table
 1285 AC 12
1287 DE 12
1289 00 00
                                                                                                                 .dw mario_death_spin
.dw dead_mario_lying_down
                                                                                                                 .dw
128B 128B 128B DF 128C DF 128C 21 4D 69 128F 3E F0 1291 CB 16 1293 1F 1294 77 1295 21 9D 63 1298 34 1299 3E 0D 1298 32 9E 63
  128B
                                                                                                                                                                                                                                                                                ; DATA XREF: 0000:1283\u00e3o
; wait for 8-bit countdown
; sprite #19, tile
; mario sprite << 1
                                                         delay_before_spin:
                                                                                                                                          0x18
                                                                                                              rst
ld
                                                                                                                                         hl, #soft_sprite_ram+0x4D
a, #0xF0; '-'
(hl)
                                                                                                               ld
rl
                                                                                                                rra
                                                                                                                                          (hl), a
hl, #mario_death_state
(hl)
a, #0xD
                                                                                                                14
                                                                                                                ld
                                                                                                                inc
ld
1299 3E 0D
129B 32 9E 63
129E 3E 08
12A0 32 09 60
12A3 CD BD 30
12A6 3E 03
12A8 32 88 60
12AB C9
                                                                                                               ld
ld
ld
                                                                                                                                          (unk_0_639E), a a, #8
                                                                                                                                          a, #8
(eight_bit_countdown), a
sub_0_30BD
                                                                                                                call
                                                                                                               ld
ld
                                                                                                                                           (music_something), a
                                                                                                                ret
12AB C9

12AC

12AC

12AC

12AC DF

12AD 3E 08

12AF 32 09 60

12B2 21 9E 63

12B5 35
                                                                                                                                                                                                                                                                                ; DATA XREF: 0000:1285\u00f1o
; wait for 8-bit countdown
                                                         mario_death_spin:
                                                                                                                                          0x18
                                                                                                               rst
ld
                                                                                                                                          a, #8
(eight_bit_countdown), a
hl, #unk_0_639E
(hl)
                                                                                                                ld
ld
                                                                                                                                        Z, loc_0_12CB
hl, #soft_sprite_ram+0x4D
a, (hl)
12B5 35

12B6 CA CB 12

12B9 21 4D 69

12BC 7E

12BD 1F

12BE 3E 02

12C0 1F

12C1 47
                                                                                                                dec
                                                                                                                jp
ld
ld
                                                                                                                rra
                                                                                                               ld
rra
ld
                                                                                                                                          a, #2
                                                                                                                                          b, a
 12C2 AE
12C3 77
12C4 2C
12C5 78
                                                                                                                xor
ld
                                                                                                                                           (h1)
                                                                                                                                           (hl), a
                                                                                                                inc
ld
                                                                                                                                          l
a, b
  12C6 E6 80
12C8 AE
12C9 77
                                                                                                               and
xor
ld
                                                                                                                                           #0x80 ; 'Ç'
                                                                                                                                                                                                                                                                              ; flip mario upside down?
  12C8 AE
12C9 77
12CA C9
                                                                                                                                          (hl)
(hl), a
                                                                                                                ret
  12CB
                                                                                                                                                                                                                                                                                ; CODE XREF: 0000:12B6 j
                                                          loc_0_12CB:
 12CB 21 4D 69
12CE 3E F4
12D0 CB 16
12D2 1F
12D3 77
                                                                                                                                          hl, #soft_sprite_ram+0x4D
a, #0xF4 ; '¶'
                                                                                                                ld
                                                                                                               ld
rl
                                                                                                                                          (hl)
                                                                                                                rra
12DZ 1F
12D3 77
12D4 21 9D 63
12D7 34
12D8 3E 80
12DA 32 09 60
                                                                                                                                          (h1), a
h1, #mario_death_state
(h1)
                                                                                                                ld
                                                                                                               ld
inc
                                                                                                                                          a, #0x80 ; 'Ç'
 12DA 32
12DD C9
12DE
12DE
                                                                                                                1d
                                                                                                                                          (eight_bit_countdown), a
12DE 12DE DF 1
                                                         ; DATA XREF: 0000:1287\u00e9o
; wait for 8-bit countdown
                                                                                                                                          sub_0_30DB
                                                                                                                                          hl, #main_sequencer
a, (current_player_E)
a
Z, loc_0_12ED
                                                                                                                ld
                                                                                                               ld
and
                                                                                                                                                                                                                                                                                ; player 1?
; yes, skip
                                                                                                                qŗ
                                                                                                                                          (hl)
                                                          loc_0_12ED:
                                                                                                                                                                                                                                                                                ; CODE XREF: 0000:12E9<sup>†</sup>j
                                                                                                                                           (hl)
                                                                                                                ld
                                                                                                                                           (hl), #1
12F2
12F2
12F2 CD 1C 01
12F5 AF
12F6 32 2C 62
12F9 21 28 62
12F0 35
12FD 7E
12FE 11 40 60
1301 01 08 00
1304 ED B0
1306 A7
1307
                                                          save_P1_ingame_data:
                                                                                                                                                                                                                                                                                ; DATA XREF: 0000:071E10
                                                                                                              call
                                                                                                                                          stop_sound
                                                                                                                xor
                                                                                                                1d
                                                                                                                                            (seen_intro)
                                                                                                                                         (seen_intro), a
hl, #lives_left
(h1)
a, (h1)
de, #pl_ingame_data
bc, #8
                                                                                                               ld
dec
ld
                                                                                                               ld
ld
                                                                                                                ldir
                                                                                                                and
                                                                                                                                          а
                                                          loc_0_1307:
1307 7 1307 C2 34 13 130A 3E 01 130A C21 B2 60 130F CD CA 13 1312 21 D4 76 1315 3A 0F 60 1318 A7 1319 28 07 131B 11 02 03 131E CD 9F 30
                                                                                                                jp
ld
                                                                                                                                          NZ, loc_0_1334
                                                                                                                                         nz, 10c_0_1334

a, #1

hl, #pl_score

sub_0_13CA

hl, #VRAM_start+0x2D4

a, (two_players)
                                                                                                               ld
call
ld
```

; display message 02

ld and jr

ĺα

call

a Z, loc_0_1322

#0×302

queue_fg_vector_fn

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
 1321 2B
                                                                dec
1322
1322 CD 26 18
1325 11 00 03
1328 CD 9F 30
132B 21 09 60
132E 36 CO
1330 23
1331 36 10
                                 loc_0_1322:
                                                                                                                                                             ; CODE XREF: 0000:1319<sup>†</sup> †
                                                                               clear_14x5_HL
de, #0x300
queue_fg_vector_fn
hl, #eight_bit_countdown
(hl), #0xC0; 'L'
                                                                call
ld
call
                                                                                                                                                             ; display_message_00
                                                                 ld
ld
                                                                 inc
ld
                                                                                (hl), #0x10
1331 36
1333 C9
1334
1334
1334
1334 0E 08
1336 3A 0F 60
1339 A7
                                 loc_0_1334:
                                                                                                                                                             ; CODE XREF: 0000:1307<sup>†</sup> †
                                                                ld
ld
                                                                                c, #8
a, (two_players)
                                                                 and
133A CA 3F 13
133D 0E 17
133F
133F
                                                                                Z, loc_0_133F
c, #0x17
                                                                 jp
ld
                                 loc_0_133F:
                                                                                                                                                             ; CODE XREF: 0000:133A1i
133F 79
1340 32 0A 60
1343 C9
1344
                                                                ld
                                                                                a, c
(main_sequencer), a
                                                                 ld
                                                                 ret
1344
1344 CD 1C 01
1347 AF
1348 32 2C 62
1348 32 2C 62
1348 21 28 62
134E 35
134F 7E
1350 11 48 60
1353 01 08 00
1356 ED B0
1358 A7
                                                                                                                                                              ; DATA XREF: 0000:0720 o
                                  save_P2_ingame_data:
                                                                                stop_sound
                                                                call
xor
                                                                               a (seen_intro), a hl, #lives_left (hl) a, (hl) de, #p2_ingame_data bc, #8
                                                                 ld
ld
                                                                dec
ld
ld
ld
1356 ED B0
1358 A7
1359 C2 7F 13
1350 C3 E 03
1351 C3 E 03
1352 L1 B5 60
1361 CD CA 13
1364 L1 03 03
1367 CD 9F 30
136A L1 00 03
136D CD 9F 30
1370 21 D3 76
1370 21 D3 76
1373 CD 26 18
1376 21 09 60
137B 23
137E C9
137F
137F
137F
                                                                 ldir
                                                                 and
jp
ld
                                                                               a
NZ, loc_0_137F
a, #3
hl, #p2_score
sub_0_13CA
de, #0x303
                                                                 ld
                                                                call
ld
call
ld
                                                                                                                                                             ; display_message_03
                                                                                queue_fg_vector_fn
de, #0x300
                                                                                                                                                             ; display_message_00
                                                                call
ld
call
ld
                                                                                queue_fg_vector_fn
hl, #VRAM_start+0x2D3
                                                                                clear_14x5_HL
hl, #eight_bit_countdown
(hl), #0xC0; 'L'
                                                                 ld
                                                                                hl
(hl), #0x11
                                                                 1d
                                                                                                                                                             ; CODE XREF: 0000:1359<sup>†</sup>j; set to switch players?
                                 loc 0 137F:
 137F
 137F OE 17
1381 3A 40 60
1384 A7
                                                                 ld
                                                                                c, #0x17
a, (p1_ingame_data)
                                                                 ld
1384 A7
1385 C2 8A 13
1388 0E 08
138A
138A
                                                                 and
                                                                                NZ, loc_0_138A
                                                                 jp
ld
                                 loc_0_138A:
                                                                                                                                                              ; CODE XREF: 0000:1385†j
138A 79
138B 32 0A 60
138E C9
                                                                 ld
                                                                ld
ret
                                                                                (main_sequencer), a
 138F
138F
 138F
138F DF
                                                                                                                                                              ; DATA XREF: 0000:0722†o ; wait for 8-bit countdown
                                 p1_game_over:
                                                                                0x18
138F DF
1390 0E 17
1392 3A 48 60
1395
1395 34
                                                                 rst
                                                                                c, #0x17
a, (p2_ingame_data)
                                                                 1d
                                                                 ld
                                                                                                                                                             ; CODE XREF: 0000:13A7|j
                                 loc_0_1395:
                                                                 inc
and
                                                                                (h1)
1396 A7
1397 C2 9C 13
139A 0E 14
                                                                                NZ, loc_0_139C
c, #0x14
                                                                 jp
ld
139A 0E 14
139C
139C 79
139D 32 0A 60
13A0 C9
13A1
13A1
13A1
13A1 DF
13A2 0E 17
13A2 0E 17
13A4 3A 40 60
13A7 C3 95 13
                                  loc_0_139C:
                                                                                                                                                              ; CODE XREF: 0000:1397<sup>†</sup>j
                                                                 ld
                                                                                (main_sequencer), a
                                                                 ld
                                                                                                                                                              ; DATA XREF: 0000:0724<sup>†</sup>o; wait for 8-bit countdown
                                 p2_game_over:
                                                                                0x18
c, #0x17
                                                                 ld
                                                                                a, (p1_ingame_data)
loc_0_1395
13AA
13AA
13AA
                                 set_flip_and_current_P2:
                                                                                                                                                             ; DATA XREF: 0000:0726†o
13AA 3A 26 60 13AD 32 82 7D 13BO AF 13B1 32 0A 60 13B4 21 01 01 13B7 22 0D 60 13BA C9
                                                                ld
ld
                                                                                a, (upright)
(flipscreen), a
                                                                 xor
                                                                 ld
                                                                                (main_sequencer), a
                                                                                                                                                              ; reset ingame seguencer
                                                                 ld
                                                                                (current_player_D), hl
                                                                                                                                                              ; both current player flags to P2
                                                                 ret
13BB
                                                                                                                                                              ; DATA XREF: 0000:0728 o
                                 set_flip_and_current_P1:
                                                                xor
ld
                                                                                (current_player_D), a (current_player_E), a (main_sequencer), a
                                                                                                                                                              ; player 1
                                                                 ld
ld
                                                                                                                                                              ; player 1
; player 1
; reset ingame sequencer
; default flipscreen
```

inc ld

ret

1d

sub_0_13CA:

13CA 11 C6 61

(flipscreen), a

de, #unk_0_61C6

; CODE XREF: 0000:130F^p; 0000:1361^p

SUBROUTINE

```
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```

```
13CE CF
                                                                    rst
                                                                                                                                                                      ; return if attract mode
13CF 13
13D0 01 03
13D3 ED B0
                                                                    inc
ld
ldir
                                                                                    bc, #3
13D5 06 03
13D7 21 B1 61
13DA
13DA
                                                                    ld
                                                                    ld
                                                                                    hl, #unk_0_61B1
                                   loc_0_13DA:
                                                                                                                                                                      ; CODE XREF: sub_0_13CA+1F|j
13DA 1B
                                                                    dec
13DB 1A
13DC 0F
13DD 0F
                                                                    ld
rrca
                                                                                    a, (de)
                                                                    rrca
13DE OF
13DF OF
13E0 E6 OF
13E2 77
                                                                    rrca
rrca
and
ld
13E0 E6 OF
13E2 77
13E3 23
13E4 1A
13E5 E6 OF
13E7 77
13E8 23
13E9 10 EF
13EB 06 OE
                                                                                     (hl), a
                                                                    inc
                                                                                    hl
                                                                                          (de)
                                                                                    a, (de)
#0xF
(h1), a
                                                                    and
                                                                    ld
                                                                    djnz
ld
                                                                                     loc_0_13DA
                                                                                    b, #0xE
13EB 06 0E
13ED
13ED
13ED 36 10
13EF 23
13F0 10 FB
13F2 36 3F
13F4 06 05
13F6 21 A5 61
13FC
13FC
13FC
13FC
13FC
13FC
13FF 23
13FF 13
1400 1A
1401 9E
1402 23
1400 1A
1401 9E
1402 9B
1407 C5
1408 06 19
1408
13ED
                                   loc_0_13ED:
                                                                                                                                                                      ; CODE XREF: sub_0_13CA+26|j
                                                                                     (hl), #0x10
                                                                    ld
                                                                    inc
                                                                                    loc_0_13ED
                                                                    dinz
                                                                    ld
ld
ld
                                                                                    (h1), #0x3F; '?'
b, #5
h1, #hs_tbl_5th+0x1D
                                                                                    de, #unk_0_61C7
                                                                    ld
                                   loc_0_13FC:
                                                                                                                                                                     ; CODE XREF: sub_0_13CA+51|j
                                                                                   a, (d
(hl)
                                                                    ld
                                                                                          (de)
                                                                    sub
inc
inc
                                                                                    hl
de
                                                                                    a, (de)
a, (hl)
hl
                                                                    1d
                                                                    sbc
                                                                    inc
                                                                                    de
                                                                                    a, (de)
a, (hl)
                                                                    ld
                                                                    sbc
                                                                    push
1d
                                                                                    bc
1408 06 19
1400 1400 1400 1400 1400 1400 177
1400 77
1400 12
140F 2B
1410 1B
1411 10 F7
1413 01 F5 FF
1416 09
1417 EB
1418 09
1419 EB
1410 CT
141B 10 DF
                                                                                    b. #0x19
                                   loc_0_140A:
                                                                                                                                                                      ; CODE XREF: sub_0_13CA+47|j
                                                                                    c, (hl)
                                                                    ld
                                                                    ld
ld
ld
                                                                                    a, (de)
(hl), a
                                                                                    a, c
(de), a
                                                                    ld
dec
dec
djnz
                                                                                    hl
                                                                                    loc_0_140A
                                                                    ld
add
ex
add
                                                                                    bc, #0xFFF5
hl, bc
de, hl
                                                                                    hl, bc
                                                                    ex
                                                                                    de, hl
                                                                    pop
djnz
141D C9
141D 141E
141E
141E
141E
141E
141E CD 16 06
1421 DF
1422 CD 74 08
1425 3E 00
1420 21 1C 61
1427 32 0E 60
142A 32 0E 60
143B 3E 01
143B 19
143B 19
143B 19
144B 10 F9
144B 10 F9
144B 10 F9
144B 10 F9
                                                                    ret
                                   ; End of function sub_0_13CA
                                   draw_name_registered:
                                                                                                                                                                      ; DATA XREF: 0000:072A1o
                                                                    call
                                                                                    display_credits
                                                                                                                                                                       ; wait for 8-bit countdown
                                                                    rst
                                                                    call
                                                                                    {\tt clear\_visible\_area\_and\_sprites}
                                                                    ld
ld
                                                                                     a, #0
(current_player_E), a
                                                                                                                                                                       ; player
                                                                                                                                                                       . prayer 1 ; player 1
                                                                    ld
                                                                                      (current_player_D)
                                                                    ld
ld
ld
                                                                                    hl, #high_score_tbl_ram+0x1C
de, #0x22; '"'
b, #5
                                                                    ld
                                                                                    a. #1
                                   loc_0_1437:
                                                                                                                                                                       ; CODE XREF: 0000:143C|j
                                                                                     (hl)
                                                                    ср
                                                                    jp
add
djnz
                                                                                    Z, loc_0_1459
hl, de
loc_0_1437
                                                                                    hl, #high_score_tbl_ram+0x1C
b, #5
                                                                    ld
ld
                                                                    ld
                                                                                         #3
                                   loc_0_1445:
                                                                                                                                                                      ; CODE XREF: 0000:144A|j
                                                                    cp
jp
add
                                                                                     (hl)
                                                                                    Z, loc_0_144F
hl, de
loc_0_1445
                                                                    dinz
144C C3 75 14
144F
144F
144F
                                                                                     exit name entry
                                   loc 0 144F:
                                                                                                                                                                       ; CODE XREF: 0000:144614
144F 144F 3E 01 1451 32 0E 60 1454 32 0D 60 1457 3E 00 1459 1459 1459 21 26 60 145C B6 22 22 7D
                                                                    1d
                                                                                    a, #1
(current_player_E), a
                                                                    ld
ld
                                                                                                                                                                      ; player 2
; player 2
                                                                                     (current_player_D), a
                                                                    ld
                                                                                    a, #0
                                                                                                                                                                       ; CODE XREF: 0000:1438 j
                                   loc_0_1459:
                                                                                    hl, #upright (hl)
                                                                    ld
                                                                    or
ld
ld
ld
         B6
32 82 7D
3E 00
32 09 60
21 0A 60
34
11 0D 03
145C
145D
1460
1462
1465
1468
1469
                                                                                     (flipscreen), a
                                                                                     (eight_bit_countdown), a
                                                                    ld
inc
                                                                                    hl, #main_sequencer
(h1)
de, #0x30D
b, #0xC
                                                                                                                                                                      ; display_message_0D
146C 06 0C
                                                                    1d
```

```
; CODE XREF: 0000:1472|j
                                        loc_0_146E:
 146E CD 9F 30
                                                                                call
                                                                                                   queue_fg_vector_fn
 1471 13
1472 10 FA
1474 C9
                                                                                                   loc_0_146E
                                                                                djnz
1474 C9
1475
1475
1475
1475 SE 01
1477 32 82 7D
1470 32 05 60
1470 32 07 60
1480 3E 00
1482 32 0A 60
1485 C9
1486
1486
1486
                                                                                                                                                                                                   ; CODE XREF: 0000:144C^j
                                         exit_name_entry:
                                                                                ld
                                                                                                   a, #1
(flipscreen), a
(nmi_sequencer), a
(attract_mode_flag), a
                                                                                ld
                                                                                ld
ld
                                                                                                                                                                                                   ; set attract mode flag
                                                                                ld
                                                                                                   a, #0
                                                                                1d
                                                                                                   (main_sequencer), a
1486 1486 CD 16 06 1489 21 09 60 148C 7E 148D A7 148E C2 DC 14 1491 32 86 7D 1497 36 01 1499 21 30 60 149C 36 00 1441 23 14A4 23 10 40 10 1444 23 10 40 10 1444 23 10 40 10 1444 23 10 40 1444 23 10 40 1444 23 10 10 1444 23
                                        do_initials_entry:
call
ld
                                                                                                                                                                                                  ; DATA XREF: 0000:072C1o
                                                                                                  display_credits
hl, #eight_bit_countdown
a, (hl)
                                                                                1d
                                                                                 and
                                                                                jp
ld
                                                                                                   NZ, loc_0_14DC
                                                                                                  NZ, 10C_U_1+DC

(palette_bank), a

(palette_bank+1), a

(hl), #1

hl, #unk_0_6030

(hl), #0xA

hl
                                                                                ld
                                                                                ld
ld
                                                                                ld
inc
                                                                                                    (hl), #0
                                                                                ld
                                                                                inc
ld
                                                                                                   hl (hl), #0x10
14A4 23
14A5 36 1E
14A7 23
14A8 36 3E
14AA 23
14A8 36 02
14AB 23
14AB 36 00
14AD 21 E8 75
14B0 22 36 60
14B3 21 1C 61
14B6 3A 0E 60
14B3 21
14B6 3A 0E 60
14B8 3C
14BB 4F
14BC 11 22 00
14BF 06 04
14C1
14C1
14C1
14C1
14C1
14C1 7E
14C2 B9
14C3 CA C9 14
14C6 19
14C7 10 F8
14C9
14C9 22 3A 60
14CC 11 F3 FF
14CF 19
14CC 11 F3 FF
14CF 19
14CD 22 3A 60
14D3 3A 5 60
14D5 3A 3 5 60
14D6 3A 5 60
14D6 4F 15
14DC 21 34 60
14DF 35 14DC 21 34 60
                                                                               inc
ld
                                                                                                    nı
(hl), #0x1E
                                                                                inc
ld
                                                                                                   hl (hl), #0x3E ; '>'
                                                                                                  (n1), #UX3E; '>'
h1
(h1), #0
h1, #VRAM_start+0x1E8
(unk_0_6036), h1
h1, #high_score_tbl_ram+0x1C
a, (current_player_E)
                                                                                ld
ld
                                                                                ld
                                                                               ld
ld
                                                                                                                                                                                                   ; 0/1
; 0/2
; 1/3
                                                                                rlca
                                                                               ld
ld
                                                                                                  c, a
de, #0x22; '"'
b, #4
                                                                                ld
                                         loc_0_14C1:
                                                                                                                                                                                                  ; CODE XREF: 0000:14C7|j
                                                                                ld
                                                                                                   a, (hl)
                                                                               cp
jp
add
                                                                                                  C
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
                                                                                                   de, #0xFFF3
hl, de
                                                                               add
ld
ld
                                                                                                 ni, de
(unk_0_603A), hl
b, #0
a, (unk_0_6035)
c, a
                                                                                ld
                                                                                ld
                                                                                call
                                                                                                   sub_0_15FA
                                                                                                                                                                                                  ; high score initial select sprite
                                         loc_0_14DC:
                                                                                                                                                                                                  ; CODE XREF: 0000:148E j
                                                                                                  hl, #unk_0_6034
(hl)
NZ, loc_0_14FC
(hl), #0x3E; ':
                                                                                ld
                                                                                dec
jp
ld
14E3 36 3E
14E5 2B
14E6 35
14E7 CA C6 15
                                                                                                  hl
(hl)
Z, loc_0_15C6
                                                                               dec
dec
                                                                                jp
ld
14EA 7E
14EB 06 FF
14ED
14ED
                                                                                                  a, (hl)
b, #0xFF
                                                                                                                                                                                                  ; CODE XREF: 0000:14F0-j
                                        loc 0 14ED:
14ED 04 14EE D6 0A 14F0 D6 0A 14F3 C6 0A 14F9 32 52 75 14F8 78 14FC 14FC 14FC 1500 36 0A 1505 CB 7F 1507 C2 46 15 1508 E6 03
                                                                                sub
jp
add
                                                                                                  #0xA
NC, loc_0_14ED
                                                                                                          #0xA
                                                                               ld
ld
ld
                                                                                                   (VRAM_start+0x152), a
                                                                                                  a, b
(VRAM_start+0x172), a
                                         loc_0_14FC:
                                                                                                                                                                                                   ; CODE XREF: 0000:14E0<sup>†</sup> †
                                                                                                  hl, #unk_0_6030
b, (hl)
(hl), #0xA
                                                                                ld
ld
                                                                                                   a, (controller_in)
                                                                                                                                                                                                   ; edge-detected inputs
                                                                               ld
bit
jp
and
jp
inc
ld
                                                                                                                                                                                                   ; button pressed?
; yes, skip
; left/right only
                                                                                                   NZ, jump_pressed
150A E6 03
150C C2 14 15
150F 3C
1510 77
                                                                                                   NZ, left_right_pressed
                                                                                                                                                                                                   ; yes, skip
                                                                                                  a
(hl), a
loc_0_158A
1510 77
1511 C3 8A 15
1514
1514
                                                                                                                                                                                                  ; CODE XREF: 0000:150C1i
 1514
                                         left_right_pressed:
1514 05
1515 CA 1D 15
1518 78
1519 77
                                                                                                  b
Z, loc_0_151D
                                                                                                   a, b
(hl),
                                                                                ld
 151A C3 8A 15
151D
                                                                                                   loc_0_158A
 151D
                                                                                                                                                                                                 ; CODE XREF: 0000:1515<sup>†</sup> i
 151D
                                        loc 0 151D:
151D CB 4F
151F C2 39 15
1522 3A 35 60
1525 3C
1526 FE 1E
1528 C2 2D 15
152B 3E 00
                                                                               bit
                                                                                                   1, a
NZ, loc_0_1539
                                                                               jp
ld
inc
cp
                                                                                                   a, (unk_0_6035)
a
                                                                                                    #0x1E
                                                                                                  NZ, loc_0_152D
a, #0
                                                                                jp
ld
```

```
; CODE XREF: 0000:1528<sup>†</sup>j; 0000:153E<sup>†</sup>j ...
                                                     loc_0_152D:
 152D 32 35 60
                                                                                                       ld
ld
ld
                                                                                                                                (unk_0_6035), a
 1533 CD FA 15
1536 C3 8A 15
1539
1539
                                                                                                                                sub_0_15FA
loc_0_158A
                                                                                                        call
                                                                                                        jр
1539
1539 3A 35 60
153C D6 01
153E F2 2D 15
1541 3E 1D
1543 C3 2D 15
1546
1546
                                                    loc 0 1539:
                                                                                                                                                                                                                                                            ; CODE XREF: 0000:151F1;
                                                                                                                                a, (unk_0_6035)
#1
P, loc_0_152D
                                                                                                        ld
                                                                                                        sub
                                                                                                        jp
ld
                                                                                                                                          #0×1E
                                                                                                        jp
                                                                                                                                 loc_0_152D
1546 | 1546 | 1546 | 1546 | 1548 | 154 | 154 | 154 | 154 | 154 | 154 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 1
                                                     jump_pressed:
                                                                                                                                                                                                                                                           ; CODE XREF: 0000:1507<sup>†</sup>j
                                                                                                                                       (unk_0_6035)
                                                                                                        ld
                                                                                                        ср
                                                                                                                                Z, loc_0_156D
                                                                                                       jp
cp
jp
ld
ld
                                                                                                                                #0x1D
                                                                                                                                Z, loc_0_15C6
hl, (unk_0_6036)
bc, #VRAM_start+0x188
                                                                                                        and
                                                                                                                               a
hl, bc
Z, loc_0_158A
hl, bc
a, #0x11
(hl), a
bc, #0xFFE0
hl, bc
                                                                                                        jp
add
                                                                                                       add
ld
ld
 1566 09
1567
                                                                                                        add
                                                     loc_0_1567:
                                                                                                                                                                                                                                                            ; CODE XREF: 0000:1583|j
 1567
1567 22 36 60
                                                                                                                                (unk_0_6036), hl
                                                                                                        ld
156A C3 8A 15
156D
156D
                                                                                                        jр
                                                                                                                                loc_0_158A
                                                                                                                                                                                                                                                            ; CODE XREF: 0000:154B1i
 156D
                                                     loc 0 156D:
156D 2A 36 60
1570 01 20 00
1573 09
1574 A7
1575 01 08 76
1578 ED 42
157A C2 86 15
157D 21 E8 75
                                                                                                                                hl, (unk_0_6036)
bc, #0x20; ''
hl, bc
                                                                                                        1d
                                                                                                        ld
                                                                                                        add
                                                                                                        and
                                                                                                                               bc, #VRAM_start+0x208
hl, bc
NZ, loc_0_1586
hl, #VRAM_start+0x1E8
                                                                                                       ld
sbc
                                                                                                        jp
ld
 1580
1580
                                                     loc_0_1580:
                                                                                                                                                                                                                                                            ; CODE XREF: 0000:1587/j
 1580 3E 10
1582 77
                                                                                                        ld
                                                                                                                                a, #0x10
(h1), a
loc_0_1567
                                                                                                                                       #0x10
 1582 77
1583 C3 67 15
                                                                                                        ld
                                                                                                        jр
 1586
                                                     loc_0_1586:
                                                                                                                                                                                                                                                             ; CODE XREF: 0000:157A j
 1586 09
1587 C3 80 15
                                                                                                        add
                                                                                                                                hl, bc
loc_0_1580
                                                                                                        jр
158A
158A
158A
                                                     loc_0_158A:
                                                                                                                                                                                                                                                             ; CODE XREF: 0000:1511<sup>†</sup>j; 0000:151A<sup>†</sup>j ...
158A 21 32 60
158A
                                                                                                                               hl, #unk_0_6032
(hl)
NZ, locret_0_15F9
                                                                                                        ld
dec
jp
ld
and
                                                                                                                                a, (unk_0_6031)
                                                                                                        jp
ld
                                                                                                                                NZ, loc_0_15B8
                                                                                                                                a, #1 (unk_0_6031),
                                                                                                        ld
                                                                                                        ld
                                                                                                                                de, #byte_0_1BD+2
                                                                                                                                                                                                                                                            ; empty/dummy score
                                                                                                                                                                                                                                                             ; CODE XREF: 0000:15C3|j
                                                     loc_0_15A0:
15A0 FD 2A 38 60
15A4 FD 6E 04
15A7 FD 66 05
15AA E5
                                                                                                                                iy, (unk_0_6038)
1, 4(iy)
h, 5(iy)
h1
                                                                                                        1d
                                                                                                                                                                                                                                                              ; ptr high score
                                                                                                       ld
ld
                                                                                                       push
15AA E5
15AB DD E1
15AD CD 7C 05
15B0 3E 10
15B2 32 32 60
                                                                                                        pop
call
                                                                                                                                display_score_HL
                                                                                                                                a, #0x10
(unk_0_6032), a
locret_0_15F9
                                                                                                        ld
 15B2 52 52 00
15B5 C3 F9 15
15B8
15B8
                                                                                                                                                                                                                                                            ; CODE XREF: 0000:1595<sup>†</sup> i
 15B8
                                                    loc_0_15B8:
15B8 AF 15B9 32 31 60 15BC ED 5B 38 60 15C0 13 15C2 13 15C2 13 15C3 C3 AO 15
                                                                                                        xor
ld
                                                                                                                                 (unk_0_6031)
                                                                                                                                de, (unk_0_6038)
de
                                                                                                       ld
inc
inc
inc
                                                                                                                                                                                                                                                            ; point to high score
                                                                                                                                de
                                                                                                                                loc_0_15A0
                                                                                                        jр
 15C6
15C6
 15C6 loc_0_15C6:
15C6 ED 5B 38 60
                                                                                                                                                                                                                                                             ; CODE XREF: 0000:14E7<sup>†</sup>j; 0000:1550<sup>†</sup>j
15C6 ED 5B 38 60

15C8 AF

15CB 12

15CC 21 09 60

15D1 23

15D2 35

15D3 36 0C

15D3 06 0C

15D5 21 E8 75

15D8 FD 2A 3A 60

15DC 11 E0 FF

15DF
                                                                                                       ld
xor
ld
                                                                                                                                                                                                                                                              ; point to high score
                                                                                                                                de, (unk_0_6038)
                                                                                                                                 a
(de),
                                                                                                                                hl, #eight_bit_countdown (hl), #0x80; 'Ç' hl (hl)
                                                                                                        ld
                                                                                                       ld
inc
dec
                                                                                                                                (NI)
b, #0xC
hl, #VRAM_start+0x1E8
iy, (unk_0_603A)
de, #0xFFE0
                                                                                                        ld
                                                                                                        ld
 15DF
15DF 7E
                                                     loc_0_15DF:
                                                                                                                                                                                                                                                           ; CODE XREF: 0000:15E6|j
                                                                                                                               a, (n<sub>1</sub>,
0(iy), a
                                                                                                                                          (hl)
 15E0 FD 77 00
                                                                                                        ld
inc
 15E3 FD 23
15E5 19
15E6 10 F7
                                                                                                                                iy
hl, de
loc_0_15DF
                                                                                                        add
                                                                                                       djnz
15E8 06 05
15EA 11 14 03
                                                                                                        1d
                                                                                                                                b. #5
                                                                                                                                de, #0x314
                                                                                                        ld
                                                                                                                                                                                                                                                            ; display_message_14
```

```
; CODE XREF: 0000:15F1 - i
 15ED
                                                     loc 0 15ED:
queue_fg_vector_fn
                                                                                                        call
                                                                                                                                 de
loc_0_15ED
                                                                                                        djnz
                                                                                                                                                                                                                                                            ; display_message_1A
                                                                                                        1d
                                                                                                                                de, #0x31A
                                                                                                        call
                                                                                                                                 queue_fg_vector_fn
                                                                                                                                                                                                                                                             ; CODE XREF: 0000:158E<sup>†</sup>j; 0000:15B5<sup>†</sup>j
                                                     locret_0_15F9:
 15F9 C9
 15F9
                                                                                                      ret
15FA
15FA
                                                                                                     SUBROUTINE
15FA
15FA
15FA
15FA D5
                                                                                                                                                                                                                                                             ; CODE XREF: 0000:14D9<sup>†</sup>p; 0000:1533<sup>†</sup>p
                                                     sub_0_15FA:
15FA D5

15FB E5

15FC CB 21

15FE E21 OF 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

1614 C9
                                                                                                      push
push
sla
                                                                                                        1d
                                                                                                                                hl. #letter coords
                                                                                                        add
ex
ld
                                                                                                                                hl, bc
de, hl
                                                                                                                               ue, ni
hl, #soft_sprite_ram+0x74
a, (de)
de
(hl), a
                                                                                                                                                                                                                                                            ; sprite for initials entry
                                                                                                        ld
                                                                                                        inc
ld
                                                                                                        inc
                                                                                                                                hl
                                                                                                        ld
inc
ld
                                                                                                                                 (hl), #0x72 ; 'r'
                                                                                                                                                                                                                                                            : tile
                                                                                                                                (hl), #0xC
hl
                                                                                                                                                                                                                                                            ; palette
                                                                                                        inc
                                                                                                                                         (de)
                                                                                                                                a, (de)
(hl), a
                                                                                                        ld
                                                                                                        ld
                                                                                                                                                                                                                                                             ; Y coordinate
                                                                                                                                hl
                                                                                                        pop
1613 D1

1614 C9

1614

1615

1615

1615

1615 CD BD 30

1618 3A 27 62

1618 0F

161C D2 2F 16

161F 3A 88 63

1622 EF

1622

1623 54 16

1625 70 16

1627 8A 16

1629 32 17

1628 57 17

1628 8E 17
                                                                                                        gog
                                                                                                                                de
                                                     ret
; End of function sub_0_15FA
                                                                                                                                                                                                                                                             ; DATA XREF: 0000:072E10
                                                     mario_pauline_reunion:
                                                                                                                                sub_0_30BD
                                                                                                       call
ld
                                                                                                                                a, (level_type)
                                                                                                        rrca
jp
ld
                                                                                                                                NC, loc_0_162F
                                                                                                                                a, (unk_0_6388)
0x28
                                                                                                        rst
                                                                                                                                                                                                                                                              ; go!
                                                                                                        .dw loc_0_1654
.dw loc_0_1670
.dw loc_0_168A
.dw loc_0_1732
.dw loc_0_1757
                                                                                                                                                                                                                                                              ; Jump table
162D 8E 17
162F
162F
162F
                                                                                                         .dw loc 0 178E
; CODE XREF: 0000:161C1j
                                                     loc_0_162F:
                                                                                                        rrca
                                                                                                                                NC, loc_0_1641
a, (unk_0_6388)
0x28
                                                                                                        rst
                                                                                                                                                                                                                                                              ; go!
                                                                                                        .dw loc_0_16A3 .dw loc_0_16BB
                                                                                                                                                                                                                                                              ; Jump table
                                                                                                         .dw loc_0_1732
                                                                                                         .dw loc_0_178E
                                                     loc_0_1641:
                                                                                                                                                                                                                                                            ; CODE XREF: 0000:16301j
                                                                                                                                check_and_handle_bonus a, (unk_0_6388) 0x28
                                                                                                        call
                                                                                                        ld
                                                                                                        rst
                                                                                                                                                                                                                                                             ; qo1
                                                                                                        .dw unk_0_17B6

.dw wait_and_inc_sequence

.dw loc_0_1839

.dw loc_0_186F

.dw loc_0_1880

.dw loc_0_18C6
                                                                                                                                                                                                                                                              ; Jump table
164C 39 18
164E 6F 18
1650 80 18
1652 C6 18
                                                     loc_0_1654:
                                                                                                                                                                                                                                                             ; DATA XREF: 0000:162310
1654 CD 08 17
1657 21 5C 38
165A CD 4E 00
165D 3E 20
165F 32 09 60
                                                                                                                                sub_0_1708
hl, #dk_normal_spr
copy_sprites_2_11_data
                                                                                                        call
                                                                                                       ld
call
                                                                                                                                a, #0x20 ; ' '
(eight_bit_countdown), a
                                                                                                        ld
ld
 1662
1662 21 88 63
                                                     loc_0_1662:
                                                                                                                                                                                                                                                             ; CODE XREF: 0000:16A0|j
1662 21 88 63 1665 34 1666 3E 01 1668 F7 1669 21 0B 69 1660 0E FC 166E FF 166F C9 1670 0F 1670 0F 1670 0F 1670 0F 1670 1670 0F 1671 21 32 39 1674 CD 4E 00 1677 3E 00 1677 3E 00 1677 3E 00 1676 21 88 63 167F 34 1680 5F 7 1683 21 0B 69 1688 FF 1688
                                                                                                                                hl, #unk_0_6388
                                                                                                        ld
                                                                                                                                (h1)
a, #1
0x30
                                                                                                       inc
ld
                                                                                                                                                                                                                                                             ; return if level bit not set
; sprite #2, x coord
                                                                                                       rst
ld
                                                                                                                                hl, #soft_sprite_ram+0xB
                                                                                                        ld
                                                                                                                                         #0xFC;
                                                                                                                                                                                                                                                                  subtract 4 from x coord for 10 sprites
                                                                                                        ret
                                                     loc_0_1670:
                                                                                                                                                                                                                                                             ; DATA XREF: 0000:1625\u00f1o
; wait for 8-bit countdown
                                                                                                                                0x18
hl, #dk_throw_barrel_spr
                                                                                                        rst
                                                                                                        ld
                                                                                                                                n1, #dk_throw_barrel_spr
copy_sprites_2_l1_data
a, #0x20; ' '
(eight_bit_countdown), a
hl, #unk_0_6388
(hl)
                                                                                                        call
ld
                                                                                                        ld
ld
                                                                                                        inc
ld
                                                                                                                                a, #4
0x30
                                                                                                                                                                                                                                                              ; return if level bit not set
                                                                                                        rst
                                                                                                        ld
ld
                                                                                                                                hl, #
c, #4
0x38
                                                                                                                                                                                                                                                             ; sprite #2, x coord; +4; add 4 to x coord for 10 sprites
                                                                                                                                             \#soft\_sprite\_ram+0xB
                                                                                                        rst
 1689 C9
 168A
```

```
168A
                                                                                                                                                       ; DATA XREF: 0000:1627\u00e9o
; wait for 8-bit countdown
168A DF
168B DF
168B CD 4E 00
1691 3E 66
1693 32 0C 69
1696 AF
1697 32 24 69
1690 32 AF 62
1640 C3 62 16
16A3
168A
                               loc 0 168A:
                                                             rst
ld
call
                                                                            0x18
hl, #dk_climbing_spr
copy_sprites_2_11_data
a, #0x66 ; 'f'
                                                                            a, #0x66 ; 'f'
(soft_sprite_ram+0xC), a
                                                             1d
                                                             ld
xor
ld
                                                                                                                                                     ; sprite #3, y coord
                                                                             (soft_sprite_ram+0x24), a
                                                                            (soft_sprite_ram+0x2C), a
(byte_0_62AF), a
loc_0_1662
                                                             ld
                                                             ld
                                                             jp
loc_0_16A3:
                                                                                                                                                      ; DATA XREF: 0000:1637\u00e10
                                                             call
ld
                                                                            sub_0_1708
                                                                            a, (soft_sprite_ram+0x10)
#0x3B; ';'
                                                                                                                                                      ; sprite #4. v coord
                                                             sub
ld
call
                                                                            hl, #dk_normal_spr
copy_sprites_2_11_data
                                                             ld
                                                                            hl, #soft_sprite_ram+8
c, a
                                                                                                                                                      ; sprite #2, y coord
                                                             ld
rst
                                                                                                                                                       ; add C to y coord for 10 sprites
                                                                            hl, #unk_0_6388
(hl)
                                                             1d
                                                             inc
16BB
                                                                                                                                                      : DATA XREF: 0000:163910
16BB
                                loc_0_16BB:
16BB AF
16BC 32 A0 62
16BF 3A A3 63
                                                             xor
ld
ld
                                                                            a (unk_0_62A0), a a, (unk_0_63A3)
16C2 4F
16C3 3A 10 69
16C6 FE 5A
16C8 D2 E1 16
                                                             ld
ld
                                                                                  (soft_sprite_ram+0x10)
                                                                                                                                                      ; sprite #4, y coord
                                                                            #0x5A; 'Z'
NC, loc_0_16E1
                                                             ср
                                                             jp
bit
16CB CB 79
16CD CA D5 16
16D0
                                                                            Z, loc_0_16D5
                                                             jp
                                                                                                                                                       ; CODE XREF: 0000:16E8+i
16D0
                               loc 0 16D0:
16D0 3E 01
16D2 32 A0 62
16D5
                                                                            (unk_0_62A0), a
                                                                                                                                                      ; CODE XREF: 0000:16CD<sup>†</sup>j; 0000:16EB<sup>†</sup>j
16D5
                               loc_0_16D5:
16D5 CD 02 26
16D5
                                                             call
                                                                            sub_0_2602
16D5
16D8 3A A3 63
16DB 4F
16DC 21 08 69
16DF FF
                                                                            a, (unk_0_63A3)
c, a
                                                             ld
ld
                                                             ld
                                                                            hl, #soft_sprite_ram+8
0x38
                                                                                                                                                       ; sprite #2, y coord
; add C to y coord for 10 sprites
                                                             rst
16E0 C9
                                                             ret
16E1
16E1
16E1
                                loc_0_16E1:
                                                                                                                                                       ; CODE XREF: 0000:16C8 j
                                                                            ; ']'
C, loc_0_16EE
7, c
16E1 FE 5D
16E3 DA EE 16
16E6 CB 79
16E8 CA DO 16
                                                             ср
                                                             jp
bit
                                                                            7, c
Z, loc_0_16D0
                                                             jр
16EB C3 D5 16
                                                                            loc_0_16D5
16EE 1 8C 38 16EE 1 6EE 21 8C 38 16F1 CD 4E 00 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
                                                                                                                                                      ; CODE XREF: 0000:16E3 j
                               loc 0 16EE:
16EE
                                                                            hl, #dk_climbing_spr
copy_sprites_2_11_data
a, #0x66 ; 'f'
                                                             ld
                                                             call
ld
                                                                             (soft_sprite_ram+0xC), a
                                                                                                                                                     ; sprite #4, x coord
                                                             ld
                                                             xor
                                                                           a (soft_sprite_ram+0x24), a (soft_sprite_ram+0x2C), a (byte_0_62AF), a hl, #unk_0_6388 (hl)
                                                             ld
ld
                                                             ld
                                                             ld
inc
                                                             ret
1708
1708
1708
                                                             SUBROUTINE
1708
                                                                                                                                                       ; CODE XREF: 0000:1654<sup>p</sup>; 0000:16A3<sup>p</sup>
1708
                                sub_0_1708:
 1708 CD 1C 01
                                                             call
                                                                            stop_sound
170B 21 20 6A
170E 36 80
1710 23
1711 36 76
1713 23
1714 36 09
1716 23
1717 36 20
1719 21 05 69
1710 36 13
1712 11 20 00
1724 3E 10
1726 CD 14 05
1729 21 8A 60
1720 36 07
1722 23
172F 36 03
1731 C9
1731
170B 21 20 6A
                                                                            hl, #soft_sprite_ram+0x120 (hl), #0x80; 'Ç'
                                                             1d
                                                             ld
inc
                                                                            hl (hl), #0x76; 'v'
                                                             inc
                                                                           hl (hl), #9
hl (hl), #0x20; ''
hl, #soft_sprite_ram+5
(hl), #0x13
hl, #VRAM_start+0x1C4
de, #0x20; ''
                                                             ld
                                                             ld
ld
                                                                                                                                                     ; sprite #1, flipy & code
; pauline, front-on
                                                             ld
ld
ld
                                                             ld
                                                                           a, #0x10
display_3_tiles_HL
h1, #unk_0_608A
(h1), #7
                                                             call
ld
ld
                                                                             (hl), #3
                                                             ret
                                ; End of function sub_0_1708
1732
1732
1732 CD 6F 30
1732
                                                                                                                                                       ; DATA XREF: 0000:1629 o
                               loc_0_1732:
                                                                                                                                                       ; 0000:163B<sup>†</sup>o
                                                                            animate_kong_climbing
                                                             call
                                                                            a, (soft_sprite_ram+0x13)
#0x2C; ','
         3A 13 69
                                                             ld
                                                             cp
ret
xor
    38 FE 2C
  173A D0
173B AF
173C 32 00 69
173F 32 04 69
1742 32 0C 69
1745 3E 6B
173C
173F
1742
1745
1747
                                                                             (soft_sprite_ram), a
(soft_sprite_ram+4), a
(soft_sprite_ram+0xC), a
                                                                                                                                                      ; sprite #0, y coord
; sprite #1, y coord
; sprite #3, y coord
                                                             ld
ld
ld
ld
1747 32 24 69
174A 3D
                                                                            (soft_sprite_ram+0x24), a
                                                             1d
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
174B 32 2C 69
174E 21 21 6A
1751 34
1752 21 88 63
1755 34
                                                                                            (soft_sprite_ram+0x2C), a
hl, #soft_sprite_ram+0x121
(h1)
hl, #unk_0_6388
(h1)
                                                                           ld
                                                                           ld
                                                                           inc
ld
inc
1755 34
1756 C9
1757
1757
1757 CD 6F 30
1757
                                                                           ret
                                                                                                                                                                                        ; DATA XREF: 0000:162B†o; 0000:163D†o
                                       loc_0_1757:
call
                                                                                             animate_kong_climbing sub_0_176C
                                                                           inc
                                                                                             hl
                                                                                             de
                                                                           call
ld
ld
                                                                                             sub_0_1783
a, #0x40 ; '@'
(eight_bit_countdown), a
                                                                           ld
inc
                                                                                             hl, #unk_0_6388
(hl)
                                                                           ret
                                                                           SUBROUTINE
                                       sub_0_176C:
                                                                                                                                                                                        ; CODE XREF: 0000:175A p
176C 11 03 00
176F 21 2F 69
1772 06 0A
1774
                                                                           ld
ld
                                                                                             de, #3
hl, #soft_sprite_ram+0x2F
                                                                                             b, #0xA
                                                                           ld
                                       loc_0_1774:
                                                                                                                                                                                        ; CODE XREF: sub_0_176C+14|j
                                                                                            a
a, (hl)
hl, de
#0x19
NC, loc_0_177F
(hl), #0
                                                                           and
ld
1776 ED 52
1778 FE 19
177A D2 7F 17
177D 36 00
                                                                           sbc
                                                                            ср
                                                                           jp
ld
177F
177F
177F
                                       loc_0_177F:
                                                                                                                                                                                        ; CODE XREF: sub_0_176C+E^j
           10 F2
                                                                                             loc 0 1774
1780
                                                                          dinz
1782 C9
1782
1782
                                       ret
; End of function sub_0_176C
1783
                                                                        SUBROUTINE
1783
1783
                                      sub_0_1783:
                                                                                                                                                                                        : CODE XREF: 0000:175F1p
1783
1783 06 0A
1785
1785
1785 7E
1786 A7
1787 C2 26
                                                                           ld
                                                                                             b, #0xA
                                      loc_0_1785:
                                                                                                                                                                                        ; CODE XREF: sub_0_1783+8 j
                                                                           ld
and
                                                                                             a, (hl)
          A7
C2 26 00
                                                                                            a
NZ, pop_hl_ret
hl, de
                                                                           jр
                                                                                            hl, de
loc_0_1785
                                                                            add
178A
           19
10 F8
178B 10
178D C9
178D
                                                                           djnz
                                                                           ret
                                       ; End of function sub_0_1783
178D
178E
178E
178E
                                      loc_0_178E:
                                                                                                                                                                                            DATA XREF: 0000:162D o
178E DF
                                                                                                                                                                                            0000:163F1o
178E
178F 2A 2A 62
                                                                           rst
ld
                                                                                             0x18
hl, (seq_data)
                                                                                                                                                                                         ; wait for 8-bit countdown
178F 2A 2A 62
1792 23
1793 7E
1794 FE 7F
1796 C2 9D 17
1799 21 73 3A
179C 7E
179D 179D 22 2A 62
                                                                                            hl

a, (hl)

#0x7F; ''

NZ, loc_0_179D

hl, #level_seq_2

a, (hl)
                                                                           inc
                                                                           ld
                                                                                                                                                                                        ; restart repeating levels?
; no, skip
                                                                           ср
                                                                           jp
1d
                                                                                                                                                                                        . no, skip
; repeating levels
; get new level
                                                                           ld
                                                                                                                                                                                        ; CODE XREF: 0000:1796 j
                                      loc_0_179D:
179D 22 2A 62
17AO 32 27 62
17A3 11 00 05
17A6 CD 9F 30
                                                                                             (seq_data), hl
(level_type), a
de, #0x500
queue_fg_vector_fn
                                                                           1d
                                                                           ld
ld
                                                                                                                                                                                        ; update_bonus_timer
                                                                           call
17A6 CD 9F 30
17A9 AF
17AA 32 88 63
17AD 21 09 60
17B0 36 30
17B2 23
17B3 36 08
17B5 C9
                                                                           xor
ld
ld
                                                                                               (unk_0_6388),
                                                                                             hl, #eight_bit_countdown (hl), #0x30; '0'
                                                                           ld
                                                                           ld
                                                                                              (hl), #8
                                                                                                                                                                                         ; sequencer = how high screen
                                                                           ret
17B5
17B5
17B6 00
17B7 CD 1C 01
17BA 21 8A 60
17BD 36 0E
17BF 23
17C0 36 03
                                       unk_0_17B6:
                                                                           .db
                                                                                           0 ;
                                                                                                                                                                                        ; DATA XREF: 0000:1648 o
                                                                                            stop_sound
h1, #unk_0_608A
(h1), #0xE
h1
(h1), #3
                                                                           call
ld
                                                                           ld
inc
ld
1700 36 03
1702 3E 10
1704 11 20 00
1707 21 23 76
170A CD 14 05
170D CD 14 05
170B 21 DA 76
170B CD 26 18
170D CD 47 0A
170C CD A7 0D
170F 21 D5 76
170E CD A7 0D
1803 21 5C 38
                                                                                            (hl), #3
a, #0x10
de, #0x20;
hl, #VRAM_start+0x223
display_3_tiles_HL
hl, #VRAM_start+0x183
display_3_tiles_HL
hl, #VRAM_start+0x2DA
clear_14x5_HL
de, #draw_data_rivet_end1
draw_level_background
hl, #VRAM_start+0x2D5
clear_14x5_HL
de, #draw_data_rivet_end2
                                                                           ld
ld
ld
                                                                                                                                                                                        ; <space>
; inc by column
                                                                           call
                                                                           call
ld
call
ld
call
ld
call
ld
                                                                           call
                                                                           ld
call
                                                                                             de, #draw_data_rivet_end2
draw_level_background
                                                                                             hl, #VRAM_start+0x2D0
clear_14x5_HL
de, #draw_data_rivet_end3
draw_level_background
                                                                           ld
                                                                           call
ld
call
                                                                                             hl, #VRAM_start+0x2CB
clear_14x5_HL
de, #draw_data_rivet_end4
draw_level_background
                                                                           ld
                                                                           call
ld
call
```

hl, #dk_normal_spr copy_sprites_2_11_data

1d call

1803 21 5C 38 1806 CD 4E 00

```
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1809 21 08 69
                                                                                hl, #soft_sprite_ram+8
                                                                 ld
                                                                                                                                                               ; sprite #2, y coord
                                                                               C, #68
0x38
hl, #soft_sprite_ram+5
(hl), #0x13
a, #0x20; ''
(eight_bit_countdown), a
"#0x80; 'C'
"#0x80; 'C'
180C OE 44
                                                                 ld
180C 0E 44
180E FF
180F 21 05 69
1812 36 13
1814 3E 20
1816 32 09 60
1819 3E 80
181B 32 90 63
                                                                 rst
ld
ld
                                                                                                                                                               ; add 68 to y coord for 10 sprites ; sprite #1, yflip & code ; pauline, straight-on
                                                                 ld
                                                                 ld
ld
ld
181E 21 88 63
1821 34
1822 22 C0 63
1825 C9
                                                                 ld
                                                                                hl, #unk_0_6388 (hl)
                                                                 inc
ld
                                                                                 (ptr_current_sequence), hl
                                                                 ret
1826
1826
1826
1826
                                                                 SUBROUTINE
1826
1826 11 DB FF
1826
                                                                                                                                                               ; CODE XREF: 0000:1322<sup>p</sup>; 0000:1373<sup>p</sup>...
                                 clear_14x5_HL:
                                                                 ld
                                                                                de, #0xFFDB
1829 OE OE
                                                                 ld
                                                                                c, #0xE
a, #0x10
182B 3E 10
182D
182D
                                                                 ld
                                                                                                                                                               ; <space>
                                                                                                                                                               ; CODE XREF: clear_14x5_HL+F|j
                                 loc 0 182D:
182D 06 05
                                                                 ld
                                                                                b. #5
182D 06 05
182F
182F
182F 77
1830 23
1831 10 FC
1833 19
1834 0D
                                                                                                                                                               ; CODE XREF: clear_14x5_HL+B|j
                                 loc_0_182F:
                                                                 ld
                                                                                (hl), a
                                                                                                                                                               ; display space
                                                                                                                                                               ; next row
; loop 5 times
; next column
                                                                                loc_0_182F
hl, de
                                                                 djnz
                                                                 add
dec
1835 C2 2D 18
1838 C9
1838
1838
                                                                 jp
ret
                                                                                NZ, loc_0_182D
                                                                                                                                                               ; loop through 14 columns
                                  ; End of function clear_14x5_HL
1839
1839
1839
                                 loc_0_1839:
                                                                                                                                                               ; DATA XREF: 0000:164C\u00e90
1839
1839 21 90 63
183C 34
183D CA 59 18
1840 7E
1841 E6 07
                                                                                hl, #kong_thrash_tmr
(hl)
Z, loc_0_1859
                                                                 1d
                                                                 inc
jp
ld
                                                                                a, (hl)
#7
                                                                 and
1841 E6 07
1843 C0
1844 11 CF 39
1847 CB 5E
1849 20 03
184B 11 F7 39
184E
                                                                 ret
ld
                                                                                NZ
de, #0x39CF
                                                                 bit
                                                                                3, (hl)
NZ, loc_0_184E
de, #0x39F7
                                                                                     (hl)
                                                                 jr
ld
                                 loc_0_184E:
                                                                                                                                                               ; CODE XREF: 0000:1849<sup>†</sup> j
184E
184E 184E EB 184F CD 4E 00 1852 21 08 69 1855 0E 44 1857 FF 1858 C9 1859
                                                                 ex
                                                                                copy_sprites_2_11_data
hl, #soft_sprite_ram+8
c, #68
                                                                 call
ld
                                                                                                                                                               ; sprite #2, y coord
                                                                 1d
                                                                                                                                                               ; add 68 to y coord for 10 sprites
                                                                 ret
1859 1859 1859 21 5C 38 8185C CD 4E 00 185F 21 08 69 1862 0E 44 1865 3E 20 1867 32 09 60 186A 21 88 63 186D 34 186E C9 1886F 186F 186F 186F DF
                                 loc_0_1859:
                                                                                                                                                               ; CODE XREF: 0000:183D↑j
                                                                 ld
call
ld
                                                                                hl, #dk_normal_spr
copy_sprites_2_11_data
hl, #soft_sprite_ram+8
c, #68
                                                                                                                                                               ; sprite #2, y coord
                                                                 ld
rst
                                                                                c, #68
0x38
a, #0x20; ' '
(eight_bit_countdown), a
h1, #unk_0_6388
(h1)
                                                                                                                                                               ; add 68 to y coord for 10 sprites
                                                                 ld
                                                                 14
                                                                 ld
                                                                 ret
                                                                                                                                                               ; DATA XREF: 0000:164E<sup>o</sup>; wait for 8-bit countdown
                                 loc_0_186F:
186F DF 1870 21 1F 3A 1873 CD 4E 00 1876 3E 03 1878 32 84 60 187E 21 88 63 187E 34 187F C9
                                                                                0x18
hl, #fk_falling_spr
copy_sprites_2_11_data
a, #3
                                                                 rst
                                                                 ld
call
ld
                                                                                a, #3
(digital_snd_tmr_kong_fall), a
hl, #unk_0_6388
(hl)
                                                                                                                                                               ; tmr=3
                                                                 ld
ld
                                                                 inc
                                                                 ret
1880
1880
1880
                                 loc_0_1880:
                                                                                                                                                                   DATA XREF: 0000:1650 o
1880 21 0B 69
                                                                                hl, #soft_sprite_ram+0xB
                                                                 ld
                                                                                                                                                                  sprite #2, x coord
1880 21 08 69
1883 0E 01
1885 FF
1886 3A 1B 69
1889 FE D0
                                                                 ld
rst
                                                                                                                                                                   add 1 to x coord for 10 sprites
                                                                                a, (soft_sprite_ram+0x1B)
#0xD0 ; 'ŏ'
                                                                 ld
                                                                 cp
ret
ld
ld
1889 FE DO
188B CO
188C 3E 2O
188E 32 19 69
1891 21 24 6A
1894 36 7F
1896 2C
1897 36 39
                                                                                NZ
a, #0x20;
(soft_sprite_ram+0x19),
                                                                 ld
ld
                                                                                hl, #soft_sprite_ram+0x124
(hl), #0x7F; ' '
                                                                 inc
ld
                                                                                l (hl), #0x39; '9'
1897 36 39
1899 2C
189A 36 01
189C 2C
189D 36 D8
189F 21 C6 76
18A2 CD 26 18
18A5 11 5F 3A
                                                                 ld
                                                                                 (hl), #1
                                                                 inc
ld
                                                                                1 (hl), #0xD8; 'Ï'
hl, #VRAM_start+0x2C6
clear_14x5_HL
de, #draw_data_rivet_end5
                                                                 ld
call
18A2 CD 26 18
18A5 11 5F 3A
18A8 CD A7 0D
                                                                 ld
                                                                                draw_level_background
de, #4
bc, #0x228
                                                                 call
                                                                 ld
ld
                                                                                LC, #UXZZ8
hl, #soft_sprite_ram+3
add_c_sprite_register_xB
a, #0
(byte_0_62AF), a
18B1 21 03 69
18B4 CD 3D 00
                                                                 ld
                                                                                                                                                              ; sprite #0, x coord
                                                                 call
ld
ld
1884 CD 3D 00

1887 3E 00

1889 32 AF 62

188C 3E 03

188E 32 82 60

18C1 21 88 63

18C4 34
                                                                                a, #3
(digital_snd_tmr_thump), a
h1, #unk_0_6388
(h1)
                                                                 ld
                                                                                                                                                               ; tmr=3
```

ld ld

ret

18C5 C9

18C6

```
; DATA XREF: 0000:16521o
18C6
                                   loc 0 18C6:
                                                                                      h1, #byte_0_62AF
(h1)
Z, loc_0_193D
a, (h1)
#7
18C6 21 AF 62
18C9 35
18CA CA 3D 19
                                                                      ld
dec
jp
ld
18CD 7E
18CE E6 07
18D0 C0
18D1 21 25 6A
18D4 7E
                                                                      ret
ld
                                                                                       hl, #soft_sprite_ram+0x125
                                                                                       a, (hl)
#0x80; 'Ç'
(hl), a
                                                                      ld
                                                                      xor
ld
ld
18D5 EE 80
18D7 77
18D8 21 19 69
                                                                                       (hl), a
hl, #soft_sprite_ram+0x19
18DB 46
18DC CB A8
18DE AF
18DF CD 09 30
                                                                      ld
                                                                                       b, (1
5, b
                                                                                              (hl)
                                                                      xor
call
                                                                                       sub 0 3009
                                                                                      sub_0_3009

#0x20; ''

(h1), a

h1, #byte_0_62AF

a, (h1)

#0xE0; '6'

NZ, loc_0_1910

a, #0x50; 'P'

(coff_cor; to remain remains)
18E2 F6 20
18E4 77
18E5 21 AF 62
18E8 7E
                                                                      or
ld
ld
18E5 21 AF 62

18E8 7E E0

18E9 FE E0

18EB C2 10 19

18E6 32 4F 69

18F3 3E 00

18F5 32 4D 69

18F8 3E 9F

18F8 3E 9F
                                                                      ld
                                                                      cp
jp
ld
ld
ld
ld
ld
ld
ld
ld
ld
                                                                                       a, #0x50 ; 'P'
(soft_sprite_ram+0x4F), a
18F0 32 4F 69

18F3 3E 00

18F5 32 4D 69

18F8 3E 9F

18FA 32 4C 69

18FD 3A 03 62

1900 FE 80

1902 D2 0F 19
                                                                                       a, #U (soft_sprite_ram+0x4D), a
                                                                                       a, #0x9F ; 'f'
(soft_sprite_ram+0x4C), a
                                                                                       a, (mario_y)
#0x80; 'Ç'
NC, loc_0_190F
a, #0x80; 'Ç'
1905 3E 80
1907 32 4D 69
190A 3E 5F
190C 32 4C 69
                                                                                       a, #0x80; 'C'
(soft_sprite_ram+0x4D), a
                                                                                       a, #UX5F , _ (soft_sprite_ram+0x4C), a
                                                                      ld
190F
190F
190F 7E
                                   loc_0_190F:
                                                                                                                                                                            ; CODE XREF: 0000:1902|j
                                                                      ld
                                                                                      a, (hl)
1910 1910 FE CO 1912 CO 1913 21 8A 6O 1918 3A 29 62 1918 0F 1912 38 02 191E 36 05 1920 1920
1910
                                   loc_0_1910:
                                                                                                                                                                           ; CODE XREF: 0000:18EB<sup>†</sup> †
                                                                                       #0xC0 ; 'L'
                                                                      ср
                                                                                       NZ
hl, #unk_0_608A
(hl), #0xC
a, (level)
                                                                      ret
                                                                      1d
                                                                      ld
ld
                                                                      rrca
                                                                      jr
ld
                                                                                            loc_0_1920
                                                                                        (hl), #5
1920
1920
1920 23
1921 36 03
1923 21 23 6A
1926 36 40
1928 2B
1929 36 09
1928 2B
                                   loc_0_1920:
                                                                                                                                                                           ; CODE XREF: 0000:191C j
                                                                                      hl (hl), #3
hl, #soft_sprite_ram+0x123
(hl), #0x40; '@'
                                                                      ld
                                                                      ld
dec
192B 2B
192C 36 76
192E 2B
192F 36 8F
193I 3A 03 62
1934 FE 80
1936 D0
1937 3E 6F
1937 3E 6F
1930 C9
193D
193D
                                                                      dec
          2B
36 76
2B
36 8F
3A 03 62
                                                                      ld
dec
                                                                                        (hl), #0x76 ; 'v'
                                                                                       hl
(hl), #0x8F; 'Å'
                                                                      ld
                                                                                       a, (mario_y)
#0x80 ; 'Ç'
                                                                      cp
ret
ld
                                                                                       NC
a, #0x6F; 'o'
                                                                                       (soft_sprite_ram+0x120), a
                                                                      ld
193D
                                   loc_0_193D:
                                                                                                                                                                            ; CODE XREF: 0000:18CA 1
                                                                                      hl, (seq_data)
hl
a, (hl)
#0x7F; ''
NZ, loc_0_194B
hl, #level_seq_2
193D 2A 2A 62
1940 23
1941 7E
                                                                      ld
inc
ld
1942 FE 7F
1944 C2 4B 19
1947 21 73 3A
194A 7E
                                                                      cp
jp
ld
                                                                                                                                                                            ; restart repeating levels?
; no, skip
; start repeating levels
; get new level
                                                                                       hl, #le
                                                                      ld
194A 7E
194B
194B
194B 22 2A 62
194E 32 27 62
1951 21 29 62
1954 34
1955 11 00 05
1958 CD 9F 30
1958 AF
                                    loc_0_194B:
                                                                                                                                                                            ; CODE XREF: 0000:1944<sup>†</sup>j
                                                                                       (seq_data), hl
(level_type), a
                                                                      ld
                                                                      ld
                                                                                      hl, #level
(hl)
de, #0x500
queue_fg_vector_fn
                                                                      ld
inc
ld
                                                                                                                                                                            ; next level counter
; update_bonus_timer
                                                                      call
1958 CD 9F 30
195B AF
195C 32 2E 62
195F 32 88 63
1962 21 09 60
1965 36 E0
1967 23
1968 36 08
                                                                      xor
ld
                                                                                       a (height), a (unk_0_6388), a hl, #eight_bit_countdown (hl), #0xE0; '6' hl
                                                                      ld
ld
                                                                      ld
                                                                      inc
ld
                                                                                       (hl), #8
                                                                                                                                                                            ; set how high screen
196A C9
196B
196B
196B
                                                                      ret
                                                                                                                                                                            ; DATA XREF: 0000:0730 o
                                    cls and set seg for current play:
196B
196B CD 52 08
196E 3A 0E 60
1971 C6 12
1973 32 0A 60
1976 C9
1977
1977
                                                                      call
ld
add
                                                                                      clear_tiles_and_sprites
a, (current_player_E)
a, #18
                                                                                                                                                                            ; 0/1
                                                                                                                                                                            ; 18/19
                                                                      1d
                                                                                       (main_sequencer), a
1977
1977 CD EE 21
197A
                                                                                                                                                                            ; DATA XREF: 0000:074E o
                                   attract_mode_gameplay:
                                                                                       next\_attract\_action
                                                                      call
                                                                                                                                                                            ; DATA XREF: 0000:071A\u00e7o ; another jump table
                                   gameplay:
197A CD BD 1D
                                                                      call
                                                                                       check and handle bonus
          CD 8C 1E
CD C3 1A
                                                                      call
                                                                                       sub_0_1E8C
sub_0_1AC3
1983 CD 72 1F
1986 CD 8F 2C
1989 CD 03 2C
198C CD ED 30
                                                                      call
                                                                                       sub_0_1F72
                                                                      call
                                                                                       sub_0_2C8F
sub_0_2C03
sub_0_30ED
                                                                                                                                                                            ; process fireballs?
; process springs
                                                                      call
                                                                                       sub_0_2E04
sub_0_24EA
198F CD 04 2E
                                                                      call
1992 CD EA 24
                                                                      call
```

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1995 CD DB 2D
1998 CD D4 2E
1998 CD 07 22
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 28
19B6 CD 1D 28
19B6 CD 07 1A
19BF CD 07 1A
19BF CD CB 2F
19C2 00
19C3 00
                                                          call
                                                                       sub_0_2DDB
                                                                       sub_0_2ED4
sub_0_2207
sub_0_1A33
sub_0_2A85
                                                          call
                                                         call
call
                                                         call
call
call
                                                                       sub_0_1F46
sub_0_26FA
sub_0_25F2
sub_0_19DA
                                                         call
call
                                                                       animate_kong_and_pauline
                                                                       sub_0_2808
sub_0_281D
sub_0_1E57
                                                          call
                                                         call
call
nop
nop
                                                                       sub_0_1A07
sub_0_2FCB
19C3 00
19C4 00
19C5 3A 00 62
19C8 A7
19C9 C0
19CA CD 1C 01
19CD 21 82 60
19D0 36 03
19D2
19D2
19D2
19D2
19D2 1 0A 60
19D5 34
19D6 2B
19D7 36 40
19D9 C9
19DA
                                                         nop
ld
and
                                                                       a, (mario_alive_flag)
                                                                                                                                             ; mario alive?
                                                          ret
                                                                       NZ
                                                                                                                                             ; yes, return
                                                                       stop_sound
hl, #digital_snd_tmr_thump
(hl), #3
                                                          call
ld
                                                          ld
                                                                                                                                            ; tmr=3
                              loc_0_19D2:
                                                                                                                                            ; CODE XREF: 0000:1A30|j
                                                                       hl, #main_sequencer(hl)
                                                          ld
                                                          inc
                                                                                                                                             ; next sequence
; 8-bit countdown
                                                          ld
                                                                        (hl), #64
                                                                                                                                                set counter
                                                          ret
19DA
19DA
19DA
19DA
                                                          SUBROUTINE
                                                                                                                                            ; CODE XREF: 0000:19ADfp
19DA 3A 03 62 19DD 06 03 19DF 21 0C 6A 19E2 19E2 BE 19E3 CA ED 19 19E6 2C 19E7 2C 19E8 10 F6 19EC C9
                              sub 0 19DA:
                                                          1d
                                                                       a, (mario_y)
                                                         ld
ld
                                                                       b, #3
hl, #soft_sprite_ram+0x10C
                              loc_0_19E2:
                                                                                                                                            ; CODE XREF: sub_0_19DA+10|j
                                                          ср
                                                                      Z, loc_0_19ED
                                                          jp
inc
inc
inc
 19EA 10
19EC C9
19ED
                                                         djnz
ret
                                                                       loc_0_19E2
19ED
                              loc_0_19ED:
                                                                                                                                            ; CODE XREF: sub_0_19DA+9<sup>†</sup>j
                                                                      a, (mario_x)
1
                                                          ld
                                                          inc
                                                         inc
inc
                                                                        (hl)
                                                          cp
ret
                                                                       NZ
                                                         dec
dec
bit
                                                                       1
3, (hl)
NZ
                                                          ret
dec
                                                          ld
                                                                        (unk_0_6343), hl
                                                          xor
                                                                        (unk_0_6342), a
                                                          ld
                                                          ld
                                                                        (show_bonus_state), a
                                                          ret
1A06
1A07
1A07
1A07
1A07
1A07
1A07
                              ; End of function sub_0_19DA
                                                       SUBROUTINE
                              sub_0_1A07:
                                                                                                                                             ; CODE XREF: 0000:19BC1p
         3A 86 63
                                                                            (unk 0 6386)
                                                          ld
1A0A EF
1A0A
1A0B 1E
                                                                       0x28
                                                          rst
                                                                                                                                            ; go!
1A0A
1A0B 1E 1A
1A0D 15 1A
1A0F 1F 1A
1A11 2A 1A
1A13 00 00
1A15
1A15
1A15
1A15
1A15 AF
1A16 32 87 63
1A19 3E 02
1A1B 32 86 63
1A1E
1A1E
                                                          .dw locret_0_1A1E
.dw loc_0_1A15
.dw loc_0_1A1F
.dw loc_0_1A2A
                                                                                                                                             ; Jump table
                                                          .dw
                              loc_0_1A15:
                                                                                                                                             ; DATA XREF: sub_0_1A07+6↑o
                                                          xor
ld
                                                                       a
(unk_0_6387), a
                                                          ld
                                                          ld
                                                                       (unk_0_6386), a
1A1E
1A1E C9
1A1E
1A1E
                              locret_0_1A1E:
                                                                                                                                             ; DATA XREF: sub 0 1A07+410
                                                         ret
                              ; End of function sub_0_1A07
loc_0_1A1F:
                                                                                                                                            ; DATA XREF: sub_0_1A07+8\u00e10
                                                                       h1, #0x6387
(h1)
NZ
a, #3
                                                          1d
                                                         dec
                                                          ld
                                                                        (unk_0_6386), a
                                                          ld
                             loc 0 1A2A:
                                                                                                                                            ; DATA XREF: sub 0 1A07+A1o
                                                         ld
and
                                                                       a, (mario_jumping)
                                                                       a
NZ
                                                          ret
```

pop jp

1A33 1A33

loc_0_19D2 SUBROUTINE I

```
1A33
1A33 1A33 1A33 1A35 F7 1A36 A5 F7 1A36 A5 F5 A5 
                                                                                                                                                                                                                                                           ; CODE XREF: 0000:199E p
                                                    sub 0 1A33:
                                                                                                                               a, #8
0x30
a, (mario_y)
                                                                                                      1d
                                                                                                       rst
ld
                                                                                                                                                                                                                                                           ; return if level bit not set
                                                                                                       cp
jp
cp
jp
ld
                                                                                                                                 #0x4B ; 'K
                                                                                                                                Z, loc_0_1A4B
#0xB3 ; '|'
                                                                                                                                Z, loc_0_1A4B
                                                                                                                                a, (unk_0_6291)
                                                                                                       dec
                                                                                                                                Z, loc_0_1A51
 1A4B
1A4B
1A4B
1A4B 3E 01
                                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1A33+8<sup>†</sup>j
; sub_0_1A33+D<sup>†</sup>j
                                                     loc_0_1A4B:
 1A4B
1A4D 32 91 62
1A50 C9
                                                                                                       1d
                                                                                                                                a, #1
(unk_0_6291), a
1A50 C9
1A51
1A51
1A51
1A51
1A52
1A54
47
1A55 3A 05 62
1A58 3D
1A59 FE D0
1A5B D0
1A5C 07
1A5D D2 62 1A
1A60 CB D0
1A62
                                                                                                       ret
                                                      loc_0_1A51:
                                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1A33+14<sup>†</sup> j
                                                                                                                                 (unk_0_6291), a
                                                                                                       ld
                                                                                                                               b, a
a, (mario_x)
                                                                                                       ld
                                                                                                       ld
dec
                                                                                                                                 #0xD0 ; 'ð'
                                                                                                       cp
ret
                                                                                                       rlca
                                                                                                                               NC, loc_0_1A62
2, b
                                                                                                       jp
set
 1A62
1A62
1A62 07
1A63 07
                                                      loc_0_1A62:
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_1A33+2A j
                                                                                                       rlca
                                                                                                       rlca
 1A64 D2 69 1A
1A67 CB C8
1A69
                                                                                                                               NC, loc_0_1A69
1, b
1A69
1A69 E6 07
1A6B FE 06
1A6D C2 72 1A
1A70 CB C8
1A72
1A72 3A 03 62
1A75 07
                                                                                                                                                                                                                                                            ; CODE XREF: sub 0 1A33+311i
                                                     loc 0 1A69:
                                                                                                       and
                                                                                                       ср
                                                                                                                                NZ, loc_0_1A72
                                                                                                       qŗ
                                                                                                       set
                                                      loc_0_1A72:
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_1A33+3A<sup>†</sup>j
                                                                                                       1d
                                                                                                                               a, (mario_y)
1A75 07 1A76 D2 7B 1A 1A79 CB CO 1A7B 1A7B 1A7B 21 92 62 1A7E 78 1A7E 75
                                                                                                       rlca
                                                                                                                               NC, loc_0_1A7B
0, b
                                                                                                       jp
set
                                                      loc_0_1A7B:
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_1A33+431j
1A7B
1A7B 21 92 62
1A7E 78
1A7F 85
1A80 6F
1A81 7E
1A82 A7
                                                                                                                               hl, #unk_0_6292
a, b
a, l
l, a
                                                                                                       ld
                                                                                                       add
ld
ld
                                                                                                                                a, (hl)
                                                                                                       and
1A82 A7

1A83 C8

1A84 36 00

1A86 21 90 62

1A89 35

1A8A 78

1A8B 01 05 00

1A8E 1F
                                                                                                       ret
ld
ld
                                                                                                                               (h1), #0
h1, #unk_0_6290
(h1)
                                                                                                       dec
ld
                                                                                                                               a, b
bc, #5
                                                                                                       ld
rra
1A8E 1F
1A8F DA BD 1A
1A92 21 CB 02
1A95
1A95 A7
1A96 CA 9E 1A
1A99
1A99
                                                                                                                               C, loc_0_1ABD
hl, #0x2CB
                                                                                                       jp
ld
                                                     loc_0_1A95:
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_1A33+8D|j
                                                                                                       and
                                                                                                                               a
Z, loc_0_1A9E
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_1A33+68|j
                                                      loc_0_1A99:
 1A99 09
                                                                                                       add
dec
                                                                                                                               hl, bc
 1A9A 3D
1A9B C2 99 1A
                                                                                                                               NZ, loc_0_1A99
                                                                                                       jр
1A9E
                                                     loc_0_1A9E:
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_1A33+63 j
                                                                                                                               bc, #VRAM_start
hl, bc
a, #0x10
(hl), a
                                                                                                       ld
add
                                                                                                       1d
                                                                                                       ld
dec
                                                                                                                                 (hl), a
                                                                                                       inc
inc
ld
                                                                                                                               (h1), a
a, #1
(show_bonus_state), a
                                                                                                       ld
ld
                                                                                                       ld
ld
ld
                                                                                                                                 (unk_0_6342), a
(unk_0_6225), a
                                                                                                                               a, (mario_jumping)
                                                                                                       and call
                                                                                                                               a
Z, sub_0_1D95
                                                                                                       ret
 1ABD
1ABD
1ABD
                                                      loc_0_1ABD:
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_1A33+5C|j
 1ABD 21 2B 01
1AC0 C3 95 1A
                                                                                                       ld
                                                      jp loc_
; End of function sub_0_1A33
                                                                                                                                loc 0 1A95
 1AC0
1AC0
1AC3
1AC3
1AC3
                                                                                                    SUBROUTINE
                                                                                                                                                                                                                                                          ; CODE XREF: 0000:1980 p
1AC3
1AC3 3A 16 62
1AC6 3D
1AC7 CA B2 1B
1ACA 3A 1E 62
1ACD A7
1ACE C2 55 1B
1AD1 3A 17 62
                                                     sub 0 1AC3:
                                                                                                       ld
                                                                                                                               a, (mario_jumping)
                                                                                                       dec
jp
ld
and
jp
ld
                                                                                                                                a
Z, loc_0_1BB2
                                                                                                                                a, (unk_0_621E)
                                                                                                                               NZ, loc_0_1B55
a, (unk_0_6217)
 1AD5 CA E6 1A
                                                                                                                               Z, loc_0_1AE6
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
   1AD8 3A 15 62
                                                                                                  ld
                                                                                                                        a, (mario_climbing)
   1ADB 3D
                                                                                                  dec
   1ADC CA 38 1B
1ADF 3A 10 60
1AE2 17
                                                                                                  jp
ld
rla
                                                                                                                        Z, loc_0_1B38
a, (controller_in)
                                                                                                                                                                                                                                            ; jump pressed?
; yes, skip
   1AE3 DA 6E 1B
                                                                                                                        C, loc_0_1B6E
                                                                                                  jp
   1AE6
                                                   loc_0_1AE6:
                                                                                                                                                                                                                                             ; CODE XREF: sub_0_1AC3+12 j
   1AE6 CD 1F 24
                                                                                                  call
                                                                                                                         sub_0_241F
                                                                                                                        a, (controller_in) e
  1AE9 3A 10 60
1AEC 1D
1AED CA F5 1A
1AF0 CB 47
                                                                                                  ld
                                                                                                  dec
                                                                                                                         Z, loc_0_1AF5
                                                                                                  jp
bit
  1AF2 C2 8F 1C
1AF5
1AF5
1AF5 15
                                                                                                  jp
                                                                                                                         NZ, loc_0_1C8F
                                                   loc_0_1AF5:
                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+2A j
                                                                                                 dec
  1AF6 CA FE 1A
1AF9 CB 4F
1AFB C2 AB 1C
                                                                                                                        Z, loc_0_1AFE
                                                                                                 jp
bit
                                                                                                                         NZ, loc_0_1CAB
                                                                                                 jр
   1AFE
  1AFE
1AFE 3A 17 62
1B01 3D
                                                   loc_0_1AFE:
                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+33<sup>†</sup>j
                                                                                                  ld
                                                                                                                        a, (unk_0_6217)
 1AFE 3A 17 62

1B01 3D 62 08

1B03 3A 05 62

1B06 C6 08

1B08 57

1B09 3A 03 62

1B0C F6 03

1B0E CB 97

1B13 CB F2 36
                                                                                                  dec
                                                                                                                        a
Z
                                                                                                  ret
                                                                                                  ld
add
                                                                                                                        a, (mario_x)
a, #8
d, a
                                                                                                  ld
ld
                                                                                                                                 (mario_y)
                                                                                                 or
res
ld
                                                                                                                              , a
                                                                                                                                     #0x15
  1B13 CD 6E 23
1B16 F5
1B17 21 07 62
1B1A 7E
                                                                                                 call
push
ld
                                                                                                                         sub_0_236E
af
                                                                                                                         hl, #mario_flipy_sprite_tile
                                                                                                  ld
                                                                                                                         a, (hl)
#0x80; 'Ç'
 1B1A 7E
1B1B E6 80
1B1D F6 06
1B1F 77
1B20 21 1A 62
1B23 3E 04
1B25 B9
1B26 36 01
1B28 D2 2C 1B
                                                                                                                       #0x80; 'Ç'
#6
(h1), a
h1, #unk_0_621A
a, #4
                                                                                                  and
or
ld
                                                                                                                                                                                                                                            ; mario climbing character
                                                                                                 ld
ld
cp
ld
                                                                                                                        C
(hl), #1
NC, loc_0_1B2C
                                                                                                                                                                                                                                             ; set as broken ladder
                                                                                                  jp
dec
  1B2B 35
1B2C
1B2C
1B2C F1
                                                                                                                         (hl)
                                                                                                                                                                                                                                             ; set as normal ladder
                                                  loc 0 1B2C:
                                                                                                                                                                                                                                            ; CODE XREF: sub 0 1AC3+65 j
                                                                                                                         af
 1B2C F1
1B2D A7
1B2E CA 4E 1B
1B31 7E
1B32 A7
1B33 C0
1B34 2C
1B35 72
1B36 2C
1B37 70
1B38
1B38
                                                                                                                         a
Z, loc_0_1B4E
                                                                                                  jp
ld
                                                                                                                         a, (hl)
                                                                                                 and
ret
                                                                                                                         NZ
                                                                                                  inc
                                                                                                                          (hl), d
                                                                                                  1d
                                                                                                                                                                                                                                            ; set top coordinate of ladder
; set bottom Y coordinate of ladder
                                                                                                  ld
                                                                                                                         (hl), b
 1B38

1B38

1B38 3A 10 60

1B3B CB 5F

1B3D C2 F2 1C

1B40 3A 15 62

1B43 A7

1B44 C8
                                                  loc_0_1B38:
                                                                                                                                                                                                                                             ; CODE XREF: sub_0_1AC3+19 j
                                                                                                                         a, (controller_in)
                                                                                                                       .__cr_in)

J, a

NZ, loc_0_1CF2

a, (mario_climbing)

a

Z
                                                                                                                                                                                                                                            ; down?
; yes, go
                                                                                                  jp
ld
 1B44 C8

1B45

1B45 3A 10 60

1B48 CB 57

1B4A C2 03 1D

1B4D C9

1B4E

1B4E
                                                   loc_0_1B45:
                                                                                                                                                                                                                                             ; CODE XREF: sub_0_1AC3+8F|j
                                                                                                 ld
bit
                                                                                                                         a, (controller_in)
                                                                                                                                                                                                                                             ; up?
; yes, go
                                                                                                                         NZ, loc_0_1D03
                                                                                                  qŗ
                                                                                                                                                                                                                                             ; CODE XREF: sub_0_1AC3+6B<sup>†</sup> j
   1B4E
                                                   loc_0_1B4E:
  1B4E 2C
1B4F 70
1B50 2C
                                                                                                 inc
ld
                                                                                                                          (hl), b
                                                                                                                                                                                                                                              ; set top Y corordinate of ladder
                                                                                                  inc
  1B50 2C
1B51 72
1B52 C3 45 1B
1B55
1B55
                                                                                                                          (hl), d
                                                                                                  1d
                                                                                                                                                                                                                                              ; set bottom coordinate of ladder
                                                                                                                          loc_0_1B45
                                                                                                  jр
  1B55
1B55 21 1E 62
1B58 35
1B59 C0
                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+B^j
                                                   loc_0_1B55:
                                                                                                                         hl, #unk_0_621E
                                                                                                  ld
                                                                                                  dec
                                                                                                  ret
                                                                                                                         NZ
 1B59 C0

1B5A 3A 18 62

1B5D 32 17 62

1B60 21 07 62

1B63 7E

1B64 E6 80

1B66 77

1B67 AF
                                                                                                                        NZ

a, (unk_0_6218)

(unk_0_6217), a

hl, #mario_flipy_sprite_tile

a, (hl)

#0x80; 'C'
                                                                                                  ld
ld
                                                                                                  ld
ld
                                                                                                   and
                                                                                                                                                                                                                                            ; h-flip mario
                                                                                                  ld
                                                                                                                          (hl), a
. AF
1B68 32 02 62
1B6B C3 A6 1D
1B6E
1B6E
1B6F
                                                                                                  xor
                                                                                                                        (unk_0_6202), a loc_0_1DA6
                                                                                                  1d
 1B6E | 1B6E | 1B7 | 1B84 | 1B84 | 1B87 | 1B84 | 1B87 | 1B87 | 1B84 | 1B87 | 1B77 | 1B
                                                   loc_0_1B6E:
                                                                                                                                                                                                                                              ; CODE XREF: sub_0_1AC3+20 ij
                                                                                                 ld
ld
                                                                                                                         a, #1
(mario_jumping), a
                                                                                                                                                                                                                                             ; start_jump; set mario jumping
                                                                                                                        hl, #unk_0_6210
a, (controller_in)
bc, #0x80; 'Ç'
                                                                                                  ld
                                                                                                 ld
ld
                                                                                                                                                                                                                                            ; right?
; yes, skip
                                                                                                  rra
                                                                                                  jp
ld
rra
                                                                                                                        C, loc_0_1B8A
bc, #0xFF80
                                                                                                                                                                                                                                            ; left?
; yes, skip
```

; CODE XREF: sub_0_1AC3+BA[†]j; sub_0_1AC3+C1[†]j

C, loc_0_1B8A

(hl), b

(hl), c

1B8A 1B8A

1B8A AF 1B8A 1B8B 70 1B8C 2C

1B8D 71

1B8E 2C

loc_0_1B8A:

ld

inc

1d

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
 1B8F 36 01
                                                                            (hl), #1
                                                             ld
1B8F 36 01

1B91 2C

1B92 36 48

1B94 2C

1B95 77

1B96 32 04 62

1B99 32 06 62

1B9C 3A 07 62

1B9F E6 80

1BA1 F6 0F
                                                             ld
inc
                                                                            (hl), #0x48; 'H'
                                                                           1
(h1), a
(unk_0_6204), a
(unk_0_6206), a
a, (mario_flipy_sprite_tile)
#0x80; 'Ç'
                                                             ld
ld
ld
                                                             and
1B9F E6 80
1BA1 F6 0E
1BA3 32 07 62
1BA6 3A 05 62
1BA9 32 0E 62
1BAC 21 81 60
1BAF 36 03
1BB1 C9
1BB2
                                                             or
ld
ld
ld
                                                                            #0xE
                                                                                                                                                     ; mario jumping character
                                                                            (mario_flipy_sprite_tile), a
                                                                            a, (mario_x)
(unk_0_620E), a
                                                             ld
                                                                           hl, #digital_snd_tmr_jump
(hl), #3
                                                                                                                                                      ; tmr=3
1BB2 1BB2 1BB2 1BB2 1BB2 1BB2 1BB2 1BB9 DD 77 0B 1BBC 3A 05 62 1BBF DD 77 0C 1BC2 CD 9C 23 1BC5 CD 1F 24 1BC8 15 1BC9 C2 F2 1B 1BCC DD 36 11 80 1BD4 DD CB 07 FE 1BD8
                               loc_0_1BB2:
                                                                                                                                                      ; CODE XREF: sub_0_1AC3+4 j
                                                                           ix, #mario_alive_flag
                                                             ld
                                                                           a, (mario_y)

0xB(ix), a
a, (mario_x)

0xC(ix), a
sub_0_239C
                                                             ld
                                                             ld
ld
ld
                                                                                                                                                     ; store X position before a jump
                                                                                                                                                     ; store Y position before a jump
                                                             call
call
dec
                                                                           sub_0_239C
sub_0_241F
d
                                                                           NZ, loc_0_1BF2
                                                             jp
ld
                                                                            0x10(ix), #0
0x11(ix), #0x80; 'C'
7, 7(ix)
                                                             ld
                                                                                                                                                     ; h-flip sprite
                                                             set
1BD8
1BD8
1BD8
20
62
1BDB 3D
1BDC CA EC 1B
1BDF CD 07 24
1BE2 DD 74 12
1BE5 DD 75 13
                               loc_0_1BD8:
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+13F|j
                                                             ld
dec
                                                                            a, (unk_0_6220)
                                                                            a
Z, loc_0_1BEC
                                                             jp
call
ld
ld
                                                                            sub_0_2407

0x12(ix), h

0x13(ix), 1
 1BE8 DD 36 14 00
                                                             ld
                                                                            0x14(ix), #0
1BEC
1BEC CD 9C 23
1BEF C3 05 1C
                               loc_0_1BEC:
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+119<sup>†</sup>j
                                                             call
                                                                            sub_0_239C
loc_0_1C05
 1BF2
                               loc 0 1BF2:
                                                                                                                                                     ; CODE XREF: sub 0 1AC3+106 j
1BF2 1D 1BF3 C2 05 1C 1BF6 DD 36 10 FF 1BFA DD 36 11 80 1BFE DD CB 07 BE 1C02 C3 D8 1B 1C05
                                                             dec
                                                                           e
NZ, loc_0_1C05
0x10(ix), #0xFF
0x11(ix), #0x80; 'C'
7, 7(ix)
                                                             jp
ld
                                                             ld
                                                                                                                                                      ; un-hflip sprite
                                                                            loc_0_1BD8
                                                             jр
 1005
 1C05
1C05 CD 1C 2B
1C05
                               loc_0_1C05:
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+12C<sup>†</sup>j; sub_0_1AC3+130<sup>†</sup>j
                                                             call
                                                                            sub_0_2B1C
1C08 3D
1C09 CA
1C0C 3A
1C0F 3D
                                                             dec
                                                                           a
Z, loc_0_1C3A
a, (unk_0_621F)
                                                                                                                                                      ; are we jumping?
         CA 3A 1C
3A 1F 62
3D
                                                             jp
ld
1COF 3D
1C10 CA 76 1C
1C13 3A 14 62
1C16 D6 14
1C18 C2 33 1C
1C1B 3E 01
1C1D 32 1F 62
1C20 CD 53 28
                                                             dec
                                                                            a
Z, loc_0_1C76
                                                             jp
ld
sub
                                                                            a, (unk_0_6214)
#0x14
                                                                           NZ, loc_0_1C33
                                                             jp
ld
                                                                           a, #1
(unk_0_621F), a
sub_0_2853
                                                                                                                                                     ; peak of the jump
                                                             ld
                                                             call
                                                                                                                                                      ; check for bonus points?
 1C23 A7
1C24 CA A6 1D
1C27 32 42 63
1C2A 3E 01
                                                             and
                                                                                                                                                      ; any bonus points? ; no, exit
                                                                            a
Z, loc_0_1DA6
                                                                            (unk_0_6342), a
                                                             ld
                                                                                                                                                     ; register bonus
 1C2C 32 40 63
1C2F 32 25 62
1C32 00
1C33
                                                                            (show_bonus_state), a (unk_0_6225), a
                                                             1d
                                                             ld
                                                             nop
1C33
1C33 3C
1C34 CC 54 29
1C37 C3 A6 1D
                               loc_0_1C33:
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+155 j
                                                             inc
                                                                            a
Z, sub_0_2954
loc_0_1DA6
                                                             call
                                                             jр
                               loc_0_1C3A:
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+146 j
 1C3A 05
                                                             dec
1C3A 05
1C3B CA 4F 1C
1C3E 3C
1C3F 32 1F 62
1C42 AF
1C43 21 10 62
1C46 06 05
1C48
                                                             jp
inc
ld
                                                                            Z, loc_0_1C4F
                                                                            (unk_0_621F), a
                                                             xor
                                                             ld
                                                                           hl, #0x6210
b, #5
                                                             ld
1C48
1C48 77
1C49 2C
                               loc 0 1C48:
                                                                                                                                                     ; CODE XREF: sub 0 1AC3+187-j
                                                             ld
                                                                            (hl), a
         2C
10 FC
                                                                            loc_0_1C48
 1C4A
                                                             dinz
 1C4C C3 A6 1D
1C4F
1C4F
                                                                            loc 0 1DA6
 1C4F
                               loc 0 1C4F:
                                                                                                                                                     ; CODE XREF: sub 0 1AC3+178<sup>†</sup> i
1C4F
1C4F 32 16 62
1C52 3A 20 62
1C55 EE 01
1C57 32 00 62
1C5A 21 07 62
1C5D 7E
```

(mario_jumping), a
a, (unk_0_6220)
#1

#0xF

(hl), a a, #4 a, #4 (unk_0_621E), a

(unk_0_621F) a, (unk_0_6225)

Z, sub_0_1D95

(mario_alive_flag), a

hl, #mario_flipy_sprite_tile
a, (hl)
#0x80; 'C'

; set whether mario survives a jump

; mario landing character

ld xor

ld

ld ld

and or ld ld

ld xor ld ld

call

1C5E E6 80 1C60 F6 0F

1C65

77 3E 04 32 1E 62

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

1C70 CC 95 1D

```
1C73 C3 A6 1D
                                                                                                                           loc_0_1DA6
                                                                                                    jр
                                                  loc_0_1C76:
                                                                                                                                                                                                                                                   ; CODE XREF: sub_0_1AC3+14D^j
1C76
1C76 3A 05 62
1C79 21 0E 62
1C7C D6 0F
1C7E BE
1C7F DA A6 1D
                                                                                                                          a, (mario_x)
hl, #unk_0_620E
                                                                                                    ld
                                                                                                    sub
                                                                                                    ср
                                                                                                                            (hl)
                                                                                                                           C, loc_0_1DA6
a, #1
                                                                                                    jp
ld
 1C82 3E 01
1C84 32 20 62
1C87 21 84 60
1C8A 36 03
                                                                                                                          a, #1
(unk_0_6220), a
hl, #0x6084
(hl), #3
loc_0_1DA6
                                                                                                   ld
ld
ld
1C8C C3 A6 1D
1C8F
1C8F
1C8F
                                                                                                    jp
                                                  loc 0 1C8F:
                                                                                                                                                                                                                                                   ; CODE XREF: sub 0 1AC3+2F<sup>†</sup> i
b, #1
a, (unk_0_620F)
                                                                                                   1d
                                                                                                   ld
and
                                                                                                   jp
ld
ld
ld
                                                                                                                            NZ. loc 0 1CD2
                                                                                                                           a, (unk_0_6202)
b, a
a, #5
                                                                                                   call
ld
and
                                                                                                                            sub 0 3009
                                                                                                                            (unk_0_6202), a
                                                                                                                            #0x80 ;
                                                                                                    or
                                                                                                                            loc_0 1CC2
 1CAB
1CAB
1CAB
                                                   loc_0_1CAB:
                                                                                                                                                                                                                                                   ; CODE XREF: sub_0_1AC3+38 j
ICAB
1CAB 06 FF
1CAD 3A 0F 62
1CB0 A7
1CB1 C2 D2 1C
1CB4 3A 02 62
1CB7 47
1CB8 3E 01
                                                                                                   ld
ld
                                                                                                                          b, #0xFF
a, (unk_0_620F)
                                                                                                    and
                                                                                                   jp
ld
ld
ld
                                                                                                                            NZ, loc_0_1CD2
                                                                                                                           a, (unk_0_6202)
b, a
a, #1
 1CBA CD 09 30
1CBD 32 02 62
1CC0 E6 03
1CC2
                                                                                                                            sub 0 3009
                                                                                                    call
                                                                                                   ld
and
                                                                                                                            (unk_0_6202), a
#3
                                                                                                                                                                                                                                                   ; animate mario running
1CC2
1CC2
1CC2 21 07 62
1CC5 77
1CC6 1F
1CC7 DC 8F 1D
1CCA 3E 02
1CCC 32 0F 62
                                                                                                                                                                                                                                                   ; CODE XREF: sub_0_1AC3+1E5 j
                                                   loc_0_1CC2:
                                                                                                   ld
ld
                                                                                                                           hl, #mario_flipy_sprite_tile
(hl), a
                                                                                                                                                                                                                                                    ; set amrio character
                                                                                                   rra
call
ld
ld
                                                                                                                           C, sub_0_1D8F
 1CCA 3E 02
1CCC 32 0F 62
1CCF C3 A6 1D
                                                                                                                            a, #2
(unk_0_620F), a
                                                                                                    jр
                                                                                                                            loc_0_1DA6
 1CD2
1CD2
1CD2
1CD2 21 03 62 1CD2 21 CD5 7E 1CD6 80 1CD7 77 1CD8 3A 27 62 1CD 3D 1CD 66 1CE 36 67 1CE 36 1CE 36 67 1CE 36 1CE 36
                                                   loc_0_1CD2:
                                                                                                                                                                                                                                                   ; CODE XREF: sub_0_1AC3+1D2<sup>†</sup>j; sub_0_1AC3+1EE<sup>†</sup>j
                                                                                                                          hl, #mario_y
a, (hl)
a, b
                                                                                                   1d
                                                                                                    ld
                                                                                                    add
                                                                                                   ld
ld
dec
jp
ld
                                                                                                                            (hl), a
a, (level_type)
                                                                                                                            NZ, loc_0_1CEB
                                                                                                                           h, (hl)
a, (mario_x)
l, a
                                                                                                    ld
ld
                                                                                                                           sub_0_2333
                                                                                                    call
                                                                                                    14
                                                                                                                            (mario_x), a
 1CEB
                                                  loc_0_1CEB:
                                                                                                                                                                                                                                                  ; CODE XREF: sub 0 1AC3+219 j
 1CEB 21 OF 62
1CEE 35
1CEF C3 A6 1D
                                                                                                   ld
dec
                                                                                                                           hl, #unk_0_620F (hl)
                                                                                                                            loc_0_1DA6
                                                                                                    jр
1CF2
1CF2
1CF2
1CF2 3A 0F 62
                                                   loc_0_1CF2:
                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_1AC3+7A<sup>†</sup> j
                                                                                                   1d
                                                                                                                           a, (unk 0 620F)
                                                                                                                                                                                                                                                     ; check timer
1CF2 3A 0F 62
1CF5 A7
1CF6 C2 8A 1D
1CF9 3E 03
1CFB 32 0F 62
1CFE 3E 02
1D00 C3 11 1D
1D03
                                                                                                   and
jp
ld
                                                                                                                                                                                                                                                    ; expired?
; no, skip
                                                                                                                            NZ, loc_0_1D8A
                                                                                                                            (unk_0_620F), a
                                                                                                                                                                                                                                                   ; reset timer
                                                                                                    ld
                                                                                                    ld
                                                                                                    jр
                                                                                                                            loc_0_1D11
 1D03
1D03

1D03

1D03

3A 0F 62

1D06 A7

1D07 C2 76 1D

1D0A 3E 04

1D0C 32 0F 62

1D0F 3E FE
                                                   loc_0_1D03:
                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_1AC3+87<sup>†</sup>j; check timer
                                                                                                    ld
                                                                                                                            a, (unk_0_620F)
                                                                                                    and
                                                                                                                           a
NZ, loc_0_1D76
                                                                                                                                                                                                                                                     ; expired?
                                                                                                    jp
ld
ld
                                                                                                                                                                                                                                                     ; no, skip
                                                                                                                          a, #4
(unk_0_620F), a
a, #0xFE; '•
                                                                                                                                                                                                                                                   ; reset timer
                                                                                                   ld
1D0F 3E FE
1D11
1D11
1D11 21 05 62
1D14 86
1D15 77
1D16 47
1D17 3A 22 62
1D1A EE 01
1D1C 32 22 62
1D1F C2 51 1D
1D22 78
1D23 26 08
                                                   loc_0_1D11:
                                                                                                                                                                                                                                                   ; CODE XREF: sub_0_1AC3+23D|j
                                                                                                                          hl, #mario_x
a, (hl)
                                                                                                    add
                                                                                                   ld
ld
ld
                                                                                                                           (h1), a
b, a
a, (unk_0_6222)
#1
                                                                                                                         "1" (unk_0_6222), and NZ, loc_0_1D51
a, b
a, #8
                                                                                                   xor
ld
jp
ld
                                                                                                                          a, #8
hl, #unk_0_621C
(hl)
 1D22 78
1D23 C6 08
1D25 21 1C 62
1D28 BE
                                                                                                    add
                                                                                                   ld
cp
                                                                                                                                                                                                                                                    ; bottom y coordinate of ladder
1D29 CA 67 1D
1D2C 2D
1D2D 96
                                                                                                                           Z, loc_0_1D67
                                                                                                                                                                                                                                                    ; stop from climbing
                                                                                                    jp
dec
1D2C 2D
1D2D 96
1D2E CA 67 1D
1D31 06 05
1D33 D6 08
1D35 CA 3F 1D
1D38 05
                                                                                                                           (h1)
Z, loc_0_1D67
b, #5
                                                                                                    sub
                                                                                                                                                                                                                                                   ; top y coordinate of ladder
; stop from climbing
                                                                                                    jp
ld
                                                                                                    sub
                                                                                                   jp
dec
                                                                                                                            Z, loc_0_1D3F
 1D39 D6 04
                                                                                                    sub
 1D3B CA 3F 1D
                                                                                                                            Z, loc_0_1D3F
```

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
1D3E 05
                                                        dec
1D3F
1D3F
1D3F 3E 80
1D3F
                                                                                                                                           ; CODE XREF: sub_0_1AC3+272<sup>†</sup>j; sub_0_1AC3+278<sup>†</sup>j
                            loc_0_1D3F:
                                                                      a, #0x80 ; 'C'
hl, #mario_flipy_sprite_tile
(hl)
1D3F
1D41 21 07 62
1D44 A6
1D45 EE 80
1D47 B0
1D48 77
                                                         ld
                                                         and
                                                         xor
                                                                       #0x80 ; 'Ç'
                                                                                                                                           ; hflip mario
                                                         or
                                                                      (hl), a
                                                         ld
1D48 77

1D49

1D49

1D49 3E 01

1D4B 32 15 62

1D4E C3 A6 1D

1D51

1D51
                                                                                                                                           ; CODE XREF: sub_0_1AC3+2A1|j; flag mario climbing a ladder
                             loc_0_1D49:
                                                         ld
                                                                       (mario_climbing), a
                                                         1d
                                                                      loc_0_1DA6
1D51
1D51
2D
1D52
2D
1D53
7E
1D54
F6
03
1D56
CB
97
1D58
77
                                                                                                                                           ; CODE XREF: sub_0_1AC3+25C<sup>†</sup>j
                             loc_0_1D51:
                                                                      a, (hl)
#3
                                                         1d
                                                         or
res
                                                                      2, a (hl),
1D56 CB 97

1D58 77

1D59 3A 24 62

1D5C EE 01

1D5E 32 24 62

1D61 CC 8F 1D

1D67

1D67

1D67

1D67
                                                                           (unk_0_6224)
                                                         ld
                                                         xor
ld
                                                                      #1
(unk_0_6224), a
Z, sub_0_1D8F
loc_0_1D49
                                                         call
                             loc_0_1D67:
                                                                                                                                           ; CODE XREF: sub_0_1AC3+266<sup>†</sup>j
1D67 3E 06 1D67 3E 07 62 1D69 32 07 62 1D60 AF 1D60 32 19 62 1D73 C3 A6 1D 1D76 1D76 1D76 3A 1A 62 1D79 A7 1D7A CA 8A 1D
                                                                                                                                           ; sub_0_1AC3+26Bfj; mario climbing character
                                                         ld
                                                         ld
                                                                      (mario_flipy_sprite_tile), a
                                                         xor
                                                                      (unk_0_6219), a
(mario_climbing), a
loc_0_1DA6
                                                         1d
                                                                                                                                           ; flaf not climbing a ladder
                                                         jр
                             loc_0_1D76:
                                                                                                                                           ; CODE XREF: sub_0_1AC3+244^jj
                                                                      a, (unk_0_621A)
                                                         ld
                                                         and
1D79 A7

1D7A CA 8A 1D

1D7D 32 19 62

1D80 3A 1C 62

1D83 D6 13

1D85 21 05 62

1D88 BE
                                                                      Z, loc_0_1D8A
(unk_0_6219),
                                                         jp
ld
                                                         ld
                                                                      a, (unk_0_621C)
#0x13
                                                         sub
ld
                                                                      hl, #mario_x
(hl)
                                                         ср
1D89 D0
                                                         ret
                                                                      NC
1D8A
1D8A
1D8A 21 OF 62
                             loc_0_1D8A:
                                                                                                                                           ; CODE XREF: sub_0_1AC3+233<sup>†</sup>j
; sub_0_1AC3+2B7<sup>†</sup>j
                                                                      hl, #unk_0_620F
(hl)
1D8A
                                                        1d
1D8A
1D8D 35
1D8E C9
                                                        dec
                             ; End of function sub_0_1AC3
1D8E
1D8E
1D8F
1D8F
1D8F
1D8F
                                                       SUBROUTINE
1D8F
1D8F
1D8F 3E 03
                                                                                                                                             CODE XREF: sub_0_1AC3+204\psub_0_1AC3+29E\p
                             sub_0_1D8F:
                                                         ld
                                                                                                                                           ; tmr=3
1D8F
1D91 32 80 60
                                                                       (digital_snd_tmr_walk), a
                                                        14
1D94 C9
1D94
                             ret
; End of function sub_0_1D8F
1D94
1D95
1D95
                                                       SUBROUTINE
1D95
1D95
1D95 32 25 62
1D95
                                                                                                                                           ; CODE XREF: sub_0_1A33+86<sup>p</sup>; sub_0_1AC3+1AD<sup>p</sup>
                             sub_0_1D95:
                                                                      (unk_0_6225), a
1D95 | 1D98 3A 27 62 | 1D98 3D | 1D9C C8 | 1D9D 21 8A 60 | 1DA2 2C | 1DA3 36 03 | 1DA5 C9
                                                         ld
                                                                      a, (level_type)
                                                        ld
dec
ret
                                                                      hl, #unk_0_608A
(hl), #0xD
                                                         ld
                                                        ld
inc
                                                                      l
(hl), #3
1DA3 36
1DA5 C9
1DA5
1DA5
1DA6
1DA6
                                                         ret
                              ; End of function sub_0_1D95
1DA6
1DA6 21 4C 69
1DA6
                             loc_0_1DA6:
                                                                                                                                           ; CODE XREF: sub_0_1AC3+A8<sup>†</sup>j; sub_0_1AC3+161<sup>†</sup>j ...
                                                                      hl, #soft_sprite_ram+0x4C
ld
                                                        ld
ld
ld
                                                                            (mario_y)
                                                                      (hl), a
a, (mario_flipy_sprite_tile)
1
                                                                      a, (
(hl)
                                                         inc
                                                        ld
ld
                                                                      a, (mario_flipx_colour)
                                                         inc
ld
                                                                      (hl), a
                                                                      a, (mario_x)
1DB7 3A 05 62
1DBA 2C
1DBB 77
                                                        ld
inc
                                                                      (hl), a
1DBC C9
1DBD
1DBD
                                                        ret
```

SUBROUTINE

.dw no_bonus

.dw show_bonus
.dw remove_bonus

(show_bonus_state)

; CODE XREF: 0000:127C^p; 0000:1641^p ...

; go!

check_and_handle_bonus:

1DBD 1DBD 1DBD 1DBD 3A 40 63

1DBD

1DC0 EF 1DC0 1DC1 49 1E

1DC3 C9 1D 1DC5 4A 1E

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```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
                                                                   0 ;
0 ;
1DC8 00
                                                        .db
1DC9
1DC9
1DC9
                                                                                                                                         ; DATA XREF: check_and_handle_bonus+6<sup>o</sup>
                             show_bonus:
1DC9 3E 40
1DCB 32 41 63
1DCE 3E 02
1DD0 32 40 63
                                                                         #0x40 ; '@
                                                        ld
                                                                                                                                         ; timer
                                                        ld
                                                                     (show_bonus_timer), a a, #2
                                                                     a, #2
(show_bonus_state), a
                                                        ld
1DD0 32 40 03
1DD3 3A 42 63
1DD6 1F
1DD7 DA 70 3E
1DDA 1F
                                                                     a, (unk_0_6342)
                                                        ld
                                                        rra
                                                                     C, loc_0_3E70
                                                        jр
                                                        rra
1DDA 1F
1DDB DA 00 1E
1DDF DA F5 1D
1DE2 21 85 60
1DE5 36 03
1DE7 3A 29 62
1DEA 3D
                                                        jp
rra
                                                                     C, award_300_pts
                                                                     C, award_random_bonus
hl, #digital_snd_tmr_barrel_jump_priz
(hl), #3
                                                        jp
ld
                                                       ld
ld
dec
                                                                                                                                        ; tmr=3
                                                                     a
Z, award_300_pts
1DEB CA 00 1E
                                                        jp
dec
1DEE 3D
1DEF CA 08 1E
1DF2 C3 10 1E
                                                                     Z, award_500_pts
                                                        jp
                                                                     award 800 pts
                                                        qŗ
1DF5
1DF5
1DF5
1DF5 3A 18 60
1DF8 1F
                                                                                                                                         ; CODE XREF: check_and_handle_bonus+22<sup>†</sup> j
                             award_random_bonus:
                                                                     a, (random no)
                                                        ld
                                                                                                                                         ; 50% chance for 500 pts
                                                        rra
1DF6 1F
1DF9 DA 08 1E
1DFC 1F
1DFD DA 10 1E
                                                                                                                                         ; award 500 pts
; 25% chance for 800 pts
; award 800 pts
                                                        jp
rra
                                                                     C, award_500_pts
                                                                     C, award_800_pts
                                                        jр
1E00
                                                                                                                                        ; CODE XREF: check_and_handle_bonus+1Efj;
; check_and_handle_bonus+2Efj;
; '300' sprite tile
1E00
1E00 06 7D
                             award_300_pts:
                                                                    b, #0x7D ; '}'de, #3
1E00
                                                        ld
1E02 11 03 00
1E05 C3 15 1E
1E08
                                                                                                                                         ; award 3 (300) points
                                                        1d
                                                                     award_points
                                                        jр
1E08
                                                                                                                                        ; CODE XREF: check_and_handle_bonus+32<sup>†</sup> j
; check_and_handle_bonus+3C<sup>†</sup> j
; '500' sprite tile
; award 5 (500) points
1E08
1E08 06 7E
1E08
                             award_500_pts:
                                                                     b, #0x7E ; '~'
                                                        ld
1E0A 11 05 00
1E0D C3 15 1E
1E10
                                                        ld
                                                                     award_points
                                                        jp
1E10
1E10
1E10
1E10 06 7F
1E10
1E12 11 08 00
1E15
                                                                                                                                           CODE XREF: check_and_handle_bonus+35<sup>†</sup>j check_and_handle_bonus+40<sup>†</sup>j '800' sprite tile
                             award_800_pts:
                                                                     b, #0x7F ; ' '
                                                                                                                                           add_bonus_and_update_high_score (800)
                                                        ld
                                                                     de, #8
                                                                                                                                        : CODE XREF: check_and_handle_bonus+48<sup>†</sup>j

: check_and_handle_bonus+50<sup>†</sup>j

: schedule award points

: ptr x position

: prize x position

: erase prize

: go to y position
1E15
1E15 CD 9F 30
                             award_points:
                                                                     queue_fg_vector_fn
h1, (unk_0_6343)
a, (h1)
(h1), #0
1E15
                                                        call
1E18 2A 43 63
1E1B 7E
1E1C 36 00
                                                       ld
ld
                                                        ld
1E1E 2C
1E1F 2C
1E20 2C
1E21 4E
                                                        inc
inc
inc
                                                                          (hl
                                                        ld
                                                                                                                                         ; get y position
; program award sprite
                                                                     loc_0_1E36
1E22 C3 36 1E
                                                        jр
1E25
1E25 11 01 00
                                                                                                                                         ; add_bonus_and_update_high_score (100)
1E28
1E28
                             loc_0_1E28:
                                                                                                                                         ; CODE XREF: 0000:3E76|j
1E28 CD 9F 30
1E28
                                                                                                                                         ; 0000:3E7E|j ...
; schedule award points
                                                        call
                                                                     queue_fg_vector_fn
1E28
1E2B 3A 05 62
1E2E C6 14
1E30 4F
1E31 3A 03 62
                                                                     a, (mario_x)
a, #0x14
                                                        ld
                                                        add
ld
                                                                     a, (mario_y)
                                                        ld
1E34 00
1E35 00
1E36
1E36
                                                                                                                                        ; CODE XREF: check_and_handle_bonus+65<sup>†</sup>j
                            loc 0 1E36:
1E36  
1E36  21 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
                                                                    hl, #soft_sprite_ram+0x130
(hl), a
                                                        1d
                                                                                                                                         ; add bonus points sprite to display
                                                        ld
                                                        inc
                                                                     (hl), b
                                                        1d
                                                        ld
                                                                      (hl), #7
                                                        inc
ld
                                                                     (h1), c
a, #5
0x30
                                                        ld
rst
                                                                                                                                         ; return if level bit not set
1E44 21 85 60
1E47 36 03
                                                                     hl, #digital_snd_tmr_barrel_jump_priz
(hl), #3
                                                        ld
                                                        ld
                                                                                                                                        ; tmr=3
1E49
1E49
                                                                                                                                         ; DATA XREF: check_and_handle_bonus+4\u00e100
                            no_bonus:
1E49 C9
                                                       ret
                             ; End of function check_and_handle_bonus
1E49
1E49
1E4A
1E4A
1E4A
1E4A
1E4D
                             remove_bonus:
                                                                                                                                        ; DATA XREF: check_and_handle_bonus+8 o
                                                                     hl, #show_bonus_timer (hl)
1E4A 21 41 63
1E4D 35
1E4E C0
                                                        ld
                                                        dec
                                                       ret
                                                                     NZ
1E4E CO
1E4F AF
1E50 32 30 6A
1E53 32 40 63
1E56 C9
1E57
1E57
                                                        xor
ld
                                                                     (soft_sprite_ram+0x130), a
```

ld

ret

ld bit jp rra ld

jp cp

sub_0_1E57:

1E57

1E57 1E57 3A 27 62 1E5A CB 57 1E5C C2 80 1E 1E5F 1F 1E60 3A 05 62

1E63 DA 7A 1E 1E66 FE 51

(show bonus state), a

; CODE XREF: 0000:19B91p

SUBROUTINE

a, (level_type)
2, a

NZ, loc_0_1E80 a, (mario_x)

C, loc_0_1E7A #0x51; 'Q'

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
                                                      ret
1E69 3A 03 62
1E6C 17
1E6D
1E6D
                                                                   a, (mario_y)
                                                      1d
                                                     rla
                                                                                                                                   ; CODE XREF: sub_0_1E57+26|j
                            loc_0_1E6D:
1E6D 3E 00
1E6F DA 74 1E
1E72 3E 80
1E74
                                                                  a, #0
C, loc_0_1E74
a, #0x80; 'Ç
                                                      ld
1E74
1E74 32 4D 69
1E77 C3 85 1E
1E7A
                           loc 0 1E74:
                                                                                                                                   ; CODE XREF: sub 0 1E57+181 j
                                                      14
                                                                   (soft_sprite_ram+0x4D), a
loc_0_1E85
                                                      jр
1E7A
1E7A
1E7A FE 31
1E7C D0
                            loc_0_1E7A:
                                                                                                                                   ; CODE XREF: sub_0_1E57+C<sup>†</sup>j
                                                                   #0x31 ; '1'
                                                      ср
                                                      ret
1E7D C3 6D 1E
1E80
1E80
                                                                   loc_0_1E6D
                                                      jp
1E80
1E80 3A 90 62
1E83 A7
1E84 C0
1E85
                            loc_0_1E80:
                                                                                                                                   ; CODE XREF: sub 0 1E57+51i
                                                     ld
and
                                                                  a, (unk_0_6290)
                                                                  a
NZ
                                                     ret
 1E85
1E85 3E 16
1E87 32 0A 60
1E8A E1
                            loc_0_1E85:
                                                                                                                                   ; CODE XREF: sub_0_1E57+20 j
                                                                      #0x16
                                                      1d
                                                                   (main_sequencer), a
                                                     pop
ret
 1E8B C9
1E8B
                            ; End of function sub_0_1E57
 1E8B
1E8C
1E8C
1E8C
1E8C
                                                   SUBROUTINE
1E8C
1E8C 3A 50 63
1E8F A7
                            sub_0_1E8C:
                                                                                                                                   ; CODE XREF: 0000:197D p
                                                      ld
                                                                   a, (unk_0_6350)
                                                      and
1E90 C8
1E91 CD 96 1E
1E94 E1
1E95 C9
1E95
1E95
                                                      ret
                                                     call
pop
ret
                                                                  sub_0_1E96
hl
                            ; End of function sub_0_1E8C
 1E96
                            ; SUBROUTINE
 1E96
1E96
1E96
1E96 3A 45 63
1E99 EF
1E99 1E99 AO 1E
                            sub_0_1E96:
                                                                                                                                   ; CODE XREF: sub_0_1E8C+51p
                                                      ld
                                                                       (unk_0_6345)
                                                                                                                                    ; go!
                                                      .dw loc_0_1EA0
1E9C 09 1F
1E9E 23 1F
1EA0
1EA0
                                                      .dw loc_0_1F09
                                                                                                                                   ; Jump table
1EAO
1EAO 3A 52 63
1EA3 FE 65
1EA5 21 B8 69
1EA8 CA B4 1E
1EAB 21 D0 69
1EAE DA B4 1E
1EB1 21 80 69
                                                                                                                                   ; DATA XREF: sub_0_1E96+4\u00e1o
; hammer just hit something
                           loc_0_1EA0:
                                                                  a, (unk_0_6352)
#0x65; 'e'
hl, #soft_sprite_ram+0xB8
z, loc_0_1EB4
hl, #soft_sprite_ram+0xD0
C, loc_0_1EB4
                                                     ld
cp
ld
                                                                                                                                   ; process hammer hit effect (start)
                                                      jp
ld
                                                                                                                                   ; fireball area in sprite ram
                                                      jp
ld
                                                                  hl, #soft_sprite_ram+0x80
1EB4
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:
                                                                   ix, (unk_0_6351)
 1EB4
                                                      ld
1EB4
1EB8 16 00
1EBA 3A 53 63
1EBD 5F
1EBE 01 04 00
1EC1 3A 54 63
1EC4 A7
1EC5 CA CF 1E
                                                     ld
ld
ld
                                                                  d, #0
a, (unk_0_6353)
e, a
                                                                  bc, #4
a, (unk_0_6354)
                                                      ld
                                                      ld
                                                      and
                                                                  a
Z, loc_0_1ECF
                                                      jр
1EC8
1EC8
1EC8 09
1EC9 DD 19
                           loc_0_1EC8:
                                                                                                                                   ; CODE XREF: sub_0_1E96+36 | j
                                                      add
                                                      add
                                                                   ix. de
1ECB 3D
1ECC C2 C8 1E
1ECF
                                                      jр
                                                                   NZ, loc_0_1EC8
                                                                                                                                   ; CODE XREF: sub 0 1E96+2F1i
 1ECF
                           loc_0_1ECF:
1ECF DD 36 00 00
1ED3 DD 7E 15
1ED6 A7
1ED7 3E 02
                                                     ld
ld
                                                                  0(ix), #0
a, 0x15(ix)
                                                                  a
a, #2
Z, loc_0_1EDE
a, #4
                                                      and
ld
1ED9 CA DE 1E
1EDC 3E 04
1EDE
                                                     jp
ld
                                                                                                                                   ; CODE XREF: sub_0_1E96+43 j
 1EDE
                           loc_0_1EDE:
1EDE 1EDE 32 42 63 1EE1 01 2C 6A 1EE4 7E 1EE5 36 00 1EE7 02 1EE8 0C
                                                                  (unk_0_6342), a
bc, #soft_sprite_ram+0x12C
a, (hl)
                                                      ld
                                                     ld
ld
                                                     ld
ld
                                                                   (hl), #0
(bc), a
                                                                                                                                   ; flash sprite x coord
                                                      inc
1EE8 0C
1EE9 2C
1EEA 3E 60
1EEC 02
1EED 0C
1EEF 3E 0C
1EF1 02
1EF2 0C
1EF4 7E
1EF5 02
1EF6 01 45
                                                      inc
                                                                      #0x60 ; '`'
                                                     ld
ld
                                                                                                                                   ; initial hit sprite character
; flash sprite character
                                                                  a, #0x60
(bc), a
                                                      inc
```

; flash sprite y coord

ld ld

inc

ld ld

ld inc inc

ld

1EF5 02 1EF6 21 45 63 1EF9 34 1EFA 2C 1EFB 36 06

1EFD 2C 1EFE 36 05

#0xC a, #unc (bc), a

(hl), #6

(hl), #5

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

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
1F00 21 8A 60
                                                                     hl, #unk_0_608A
(hl), #6
                                                        ld
1F03 36 06
1F05 2C
1F06 36 03
1F08 C9
                                                        ld
                                                       inc
ld
ret
                                                                     (hl), #3
1F08
1F08
1F09
1F09
                             ; End of function sub_0_1E96
; DATA XREF: sub_0_1E96+6†o
; process hammer hit effect (middle)
                            loc 0 1F09:
                                                       ld
dec
ret
                                                                    hl, #unk_0_6346
(hl)
                                                                     NZ
                                                       ld
inc
dec
                                                                     (hl), #6
                                                                     (hl)
                                                                    Z, loc_0_1F1D
hl, #0x6A2D
a, (hl)
#1
                                                       jp
ld
ld
                                                                                                                                        ; animate hit flash
                                                        xor
                                                        1d
                                                                     (hl), a
                                                                                                                                        ; CODE XREF: 0000:1F12<sup>†</sup> i
                            loc_0_1F1D:
                                                       ld
dec
dec
inc
                                                                     (hl), #4
                                                                     (h1)
1F23
1F23 21 46 63
1F26 35
1F27 C0
1F28 36 OC
1F2A 2C
1F2B 35
                                                                                                                                        ; DATA XREF: sub_0_1E96+8†o ; process hammer hit effect (end)
                            loc_0_1F23:
                                                                     hl, #unk_0_6346
(hl)
                                                       ld
dec
                                                        ret
                                                                     NZ
                                                       ld
inc
dec
                                                                     (hl), #0xC
                                                                     1
(hl)
1F2B 35
1F2C CA 34 1F
1F2F 21 2D 6A
1F32 34
1F33 C9
1F34
1F34
1F34
1F34 2D
1F35 2D
1F36 AF
1F37 77
1F38 32 50 63
1F38 3C
1F36 AF
1F37 72
1F38 32 40 63
1F3F 21 2C 6A
1F3F 21 2C 6A
1F3F 21 2C 6A
1F46
1F46
1F46
                                                                     Z, loc_0_1F34
hl, #soft_sprite_ram+0x12D
(hl)
                                                        jp
ld
inc
                                                                                                                                         ; animate hit flash
                                                        ret
                            loc_0_1F34:
                                                                                                                                         ; CODE XREF: 0000:1F2C<sup>†</sup>j
                                                       dec
dec
                                                                     1
                                                        xor
ld
                                                                     a
(h1), a
(unk_0_6350), a
                                                                                                                                        ; stop effect process
                                                        ld
inc
                                                                    ....ow_ponus_state), a
hl, #soft_sprite_ram+0x12C
(unk_0_6343), hl
                                                        ld
                                                        ld
                                                        1d
                                                       SUBROUTINE
sub_0_1F46:
                                                                                                                                        ; CODE XREF: 0000:19A4\p
                                                                     a, (unk 0 6221)
                                                        ld
                                                        and
                                                        ret
xor
                                                                     (unk_0_6204), a
(unk_0_6206), a
(unk_0_6221), a
(unk_0_6210), a
                                                       ld
ld
ld
ld
ld
ld
ld
                                                                     (unk_0_6211), a
(unk_0_6211), a
(unk_0_6212), a
(unk_0_6213), a
(unk_0_6214), a
                                                        ld
ld
                                                                     (mario_jumping), a
(unk_0_621F), a
                                                        ld
                                                                          (mario x)
                                                        ld
                                                                     (unk_0_620E), a
                             ; End of function sub_0_1F46
                                                     SUBROUTINE
sub_0_1F72:
                                                                                                                                        ; CODE XREF: 0000:1983 p
                                                                     a, (level_type)
                                                        dec
ret
                                                                     a
NZ
                                                                     ix, #unk_0_6700
hl, #soft_sprite_ram+0x80
de, #0x20;
                                                        ld
ld
                                                        ld
                                                        1d
                                                                     b, #0xA
                             loc_0_1F83:
                                                                                                                                        ; CODE XREF: sub_0_1F72+1E|j
                                                        ld
                                                                     a. 0(ix)
1F83 DD 7E 00
1F86 3D
1F87 CA 93 1F
1F8A 2C
1F8B 2C
1F8C 2C
1F8D
1F8D
                                                       dec
jp
inc
                                                                     a
Z, loc_0_1F93
                                                        inc
                                                                     1
```

loc 0 1F8D:

loc_0_1F93:

add djnz

ld

jp ld

rra

ix, de loc_0_1F83

a, 1(ix)

Z, loc_0_20EC a, 2(ix)

C, loc_0_1FAC

1F8D 2C 1F8E DD 19 1F90 10 F1 1F92 C9 1F93

1F93 1F93 1F93 DD 7E 01 1F96 3D 1F97 CA EC 20 1F9A DD 7E 02

1F9E DA AC 1F

; CODE XREF: 0000:21CE | j

; CODE XREF: sub_0_1F72+15[†]j

```
1FA1
                                                                      rra
 1FA2 DA E5 1F
                                                                     jp
rra
jp
                                                                                      C. loc 0 1FE5
 1FA5 1F
1FA6 DA EF 1F
1FA9 C3 53 20
                                                                                      C, loc_0_1FEF
loc_0_2053
                                                                      jр
1FAC
1FAC
1FAC
1FAC D9
                                    loc_0_1FAC:
                                                                                                                                                                          ; CODE XREF: sub_0_1F72+2C<sup>†</sup>j
                                                                      exx
1FAC D9
1FAD DD 34 05
1FB0 DD 7E 17
1FB3 DD BE 05
1FB6 C2 CE 1F
                                                                                      5(ix)
                                                                      inc
ld
                                                                                      a, 0x17(ix)
5(ix)
NZ, loc_0_1FCE
                                                                      ср
                                                                     jp
ld
rlca
rlca
add
1FB6 C2 CE 1F
1FB9 DD 7E 15
1FBC 07
1FBD 07
1FBB C6 15
1FC0 DD 77 07
1FC3 DD 7E 02
1FC6 EE 07
1FC8 DD 77 02
                                                                                      a, 0x15(ix)
                                                                                      a, #0x15
7(ix), a
a, 2(ix)
#7
                                                                                                                                                                         ; switch downwards (sideways) barrel to rolling barrel
                                                                     ld
ld
                                                                      xor
                                                                                       2(ix),
                                                                      1d
 1FCB C3 BA 21
1FCE
1FCE
                                                                                      loc_0_21BA
                                                                                                                                                                          ; CODE XREF: sub_0_1F72+44<sup>†</sup> j ; sub_0_1F72+199<sup>†</sup> j
 1FCE
                                    loc_0_1FCE:
1FCE
1FCE DD 7E 0F
1FCE
1FD1 3D
1FD2 C2 DF 1F
1FD5 DD 7E 07
1FD8 EE 01
1FDA DD 77 07
                                                                                      a, 0xF(ix)
                                                                      dec
                                                                                      NZ, loc_0_1FDF
a, 7(ix)
#1
7(ix), a
                                                                      jp
ld
                                                                                                                                                                          ; animate sideways barrel sprite
                                                                      xor
ld
1FDD 3E 04
1FDF
1FDF
1FDF DD 77 0F
                                                                      1d
                                                                                      a, #4
                                    loc_0_1FDF:
                                                                                                                                                                          ; CODE XREF: sub_0_1F72+60 j
                                                                                      0xF(ix)
                                                                      ld
1FE2 C3 BA 21
1FE5
1FE5
                                                                      jp
                                                                                      loc_0_21BA
1FE5
1FE5 D9
1FE6 01 00 01
1FE9 DD 34 03
1FEC C3 F6 1F
                                                                                                                                                                          ; CODE XREF: sub 0 1F72+301i
                                    loc 0 1FE5:
                                                                      exx
ld
                                                                                      bc, #0x100
                                                                      inc
                                                                                       3(ix)
                                                                                      loc 0 1FF6
                                                                      jp
 1FEF
                                    loc 0 1FEF:
                                                                                                                                                                          ; CODE XREF: sub 0 1F72+34 j
1FEF D9
1FF0 01 04 FF
1FF3 DD 35 03
                                                                      exx
                                                                     ld
dec
                                                                                      bc, #0xFF04
3(ix)
 1FF6
1FF6
1FF6 DD 66 03
1FF9 DD 6E 05
                                    loc_0_1FF6:
                                                                                                                                                                          ; CODE XREF: sub_0_1F72+7A j
                                                                                      h, 3(ix)
1, 5(ix)
                                                                      ld
1FFC 7C
1FFD E6 07
1FFF FE 03
2001 CA 5F 21
                                                                                      a, h
#7
                                                                     ld
and
                                                                      ср
                                                                     jp
dec
dec
dec
call
                                                                                      Z, loc_0_215F
2004 2D
2005 2D
2006 2D
2007 CD 33 23
                                                                                      sub_0_2333
 200A 2C
200B 2C
200C 2C
200C 7D
                                                                      inc
inc
inc
                                                                                      a, 1
5(ix), a
sub_0_23DE
sub_0_24B4
                                                                      ld
200D 7D
200E DD 77 05
2011 CD DE 23
2014 CD B4 24
2017 DD 7E 03
201A FE 1C
201C DA 2F 20
201F FE E4
                                                                     ld
call
call
ld
                                                                                      a, 3(ix)
#0x1C
                                                                      cp
jp
                                                                                      "0XIC
C, loc_0_202F
#0xE4; 'õ'
C, loc_0_21BA
201F FE E4
2021 DA BA 21
2024 AF
2025 DD 77 10
2028 DD 36 11 60
202C C3 38 20
202F
202F
                                                                      ср
                                                                      jp
xor
ld
                                                                                      a
0x10(ix), a
0x11(ix), #0x60 ; '`'
                                                                      ld
                                                                                      loc_0_2038
                                                                      jp
                                                                                                                                                                          ; CODE XREF: sub 0 1F72+AA1 i
 202F
                                   loc_0_202F:
202F AF
2030 DD 36 10 FF
2034 DD 36 11 A0
                                                                                      a
0x10(ix), #0xFF
0x11(ix), #0xA0 ; 'á'
                                                                     ld
ld
 2038
2038 2038 DD 36 12 FF 203C DD 36 13 F0 2040 DD 77 14 2043 DD 77 06 204C DD 77 06 204C DD 36 02 08 2050 C3 BA 21 2053 2053 2053
                                   loc_0_2038:
                                                                                                                                                                          ; CODE XREF: sub_0_1F72+BA j
                                                                                      0x12(ix), #0xFF
0x13(ix), #0xF0;
0x14(ix), a
0xE(ix), a
4(ix), a
6(ix), a
2(ix) #8
                                                                      ld
ld
                                                                     ld
ld
ld
                                                                      1d
                                                                                       2(ix)
                                                                                      loc_0_21BA
2053 2053 D9 2053 D9 2054 CD 9C 23 2057 CD 2F 2A 2058 A7 2058 C2 83 20 2056 DD 76 2066 DA 79 20 2066 DB 75 10 2066 E6 01 2060 CD 42 24 2068 DD 75 10 2066 E6 01 2070 07
                                   loc_0_2053:
                                                                                                                                                                         ; CODE XREF: sub_0_1F72+37 j
                                                                     exx
call
                                                                                      sub_0_239C
                                                                     call
and
jp
ld
                                                                                      sub_0_2A2F
                                                                                      a

NZ, loc_0_2083

a, 3(ix)

a, #8

#0x10

C, loc_0_2079
                                                                      add
                                                                     cp
jp
call
                                                                                      sub_0_24B4
a, 0x10(ix)
#1
 206E E6
2070 07
2071 07
                                                                     and
rlca
                                                                      rlca
 2072 4F
2073 CD DE 23
2076 C3 BA 21
                                                                      ld
                                                                      call
                                                                                      sub_0_23DE
                                                                                      loc_0_21BA
                                                                      jр
```

```
loc_0_2079:
                                                                                                                                                          ; CODE XREF: sub_0_1F72+F3 j
2079 AF
                                                               xor
207A DD 77 00
207D DD 77 03
2080 C3 BA 21
                                                               ld
ld
                                                                              0(ix), a
3(ix), a
loc_0_21BA
                                                               jр
2080 C3 BA 21
2083
2083
2083 DD 34 0E
2086 DD 7E 0E
2089 3D
208A CA A2 20
208D 3D
                                loc_0_2083:
                                                                                                                                                          ; CODE XREF: sub_0_1F72+E9†j
                                                                              0xE(ix)
                                                               ld
                                                                              a, 0xE(ix)
                                                               dec
                                                                              Z, loc_0_20A2
                                                               jp
dec
jp
ld
dec
                                                                              Z, loc_0_20C3
a, 0x10(ix)
                                                                              NZ, loc_0_209C
a, #2
209C
209C DD 77 02
209F C3 BA 21
20A2
                                loc 0 209C:
                                                                                                                                                          ; CODE XREF: sub 0 1F72+125<sup>†</sup> i
                                                                              2(ix), a
loc_0_21BA
                                                               ld
                                                               jp
20A2
20A2
20A2
20A2 DD 7E 15
20A5 A7
20A6 C2 B5 20
20A9 21 05 62
20AC DD 7E 05
20AF D6 16
                                 loc_0_20A2:
                                                                                                                                                           ; CODE XREF: sub_0_1F72+118 j
                                                                              a, 0x15(ix)
                                                               ld
                                                               and
                                                               jp
ld
ld
                                                                              NZ. loc 0 20B5
                                                                              hl, #mario_x
a, 5(ix)
#0x16
                                                                                                                                                          ; check har far mario has fallen when jumping
                                                               sub
20B1 BE
20B2 D2 C3 20
20B5
20B5
                                                               cp
jp
                                                                               (h1)
                                                                              NC, loc_0_20C3
                                                                                                                                                          ; CODE XREF: sub 0 1F72+1341i
                                loc 0 20B5:
20B5 DD 7E 10
20B8 A7
20B9 C2 E1 20
                                                               ld
and
jp
ld
                                                                              a, 0x10(ix)
                                                                              NZ, loc_0_20E1
20BC DD 77 11
20BF DD 36 10 FF
20C3
20C3 CD 07 24
                                                                              0x11(ix), a
0x10(ix), #0xFF
                                                               ld
                                                                                                                                                          ; CODE XREF: sub_0_1F72+11C<sup>†</sup>j; sub_0_1F72+140<sup>†</sup>j ...
                                loc 0 20C3:
20C3
20C6 CB 3C
                                                               call
srl
                                                                               sub_0_2407
2006 CB 3C
2008 CB 1D
200A CB 3C
200C CB 1D
200E DD 74 12
20D1 D 75 13
                                                               rr
srl
                                                                              1
0x12(ix), h
0x13(ix), 1
                                                               rr
ld
20D1 DD , _
20D4 AF
20D5 DD 77 14
20D8 DD 77 04
20DB DD 77 06
                                                               ld
                                                               xor
ld
                                                                              0x14(ix), a
                                                               ld
                                                                              4(ix), a
20DB DD 77 06
20DE C3 BA 21
20E1
20E1
                                                               1d
                                                                              6(ix)
                                                               jp
                                                                              loc_0_21BA
20E1
20E1 DD 36 10 01
20E5 DD 36 11 00
20E9 C3 C3 20
20EC
                                loc_0_20E1:
                                                                                                                                                          ; CODE XREF: sub_0_1F72+147 j
                                                                              0x10(ix), #1
0x11(ix), #0
loc_0_20C3
                                                               ld
ld
                                                               jр
                                                                                                                                                          ; CODE XREF: sub_0_1F72+25<sup>†</sup>j
                                 loc_0_20EC:
20EC D9
                                                               exx
20ED CD 9C 23
20F0 7C
20F1 D6 1A
20F3 DD 46 19
                                                               call
ld
sub
                                                                              sub_0_239C
                                                                              a, h
#0x1A
                                                               1d
                                                                              b, 0x19(ix)
20F3 DD 46 19
20F6 B8
20F7 DA 04 21
20FA CD 2F 2A
20FD A7
20FE C2 18 21
2101 CD B4 24
2104
                                                               cp
jp
call
                                                                              b
                                                                              C, loc_0_2104
sub_0_2A2F
                                                               and
                                                                              a
NZ, loc_0_2118
sub_0_24B4
                                                               jp
call
2104
2104 DD 7E 03
2107 C6 08
2109 FE 10
2108 D2 CE 1F
210E AF
210F DD 77 00
2112 DD 77 03
2115 C3 BA 21
2118
                                loc_0_2104:
                                                                                                                                                         ; CODE XREF: sub_0_1F72+185 j
                                                                              a, 3(ix)
a, #8
#0x10
                                                               ld
add
                                                               cp
jp
xor
ld
                                                                              NC, loc_0_1FCE
                                                                              a
0(ix), a
                                                               ld
                                                                               3(ix)
                                                                              loc_0_21BA
                                                               jp
2118
2118
                                loc 0 2118:
                                                                             a, 5(ix)
#0xE0; 'Ó'
C, loc_0_2146
a, 7(ix)
                                                                                                                                                          ; CODE XREF: sub 0 1F72+18C j
2118
2118 DD 7E 05
211B FE E0
211D DA 46 21
2120 DD 7E 07
2123 E6 FC
2125 F6 01
2127 DD 77 07
                                                               ld
cp
                                                               jp
ld
and
                                                                               a, 7(ix)
#0xFC; '3'
                                                                                                                                                          ; switch falling (sideways) barrel to rolling bounce barrel
                                                               or
ld
                                                                               #1 7(ix), a
2127 DD 77 07
212A AF
212B DD 77 01
212E DD 77 02
2131 DD 36 10 FF
2135 DD 77 11
2138 DD 77 12
213B DD 36 13 B0
213F DD 36 0E 01
2143 C3 53 21
2146
                                                               xor
ld
ld
                                                                              a
1(ix), a
                                                                              2(ix), a
0x10(ix), #0xFF
                                                               ld
                                                                              0x10(ix), #0x10

0x11(ix), a

0x12(ix), a

0x13(ix), #0xB0; '\'
                                                               ld
ld
ld
                                                                              0xE(ix)
                                                               ld
                                                                              loc_0_2153
2146
2146
                                loc 0 2146:
                                                                                                                                                          ; CODE XREF: sub 0 1F72+1AB<sup>†</sup> i
2146 CD 07 24
2149 CD CB 22
214C DD 7E 05
214F DD 77 19
2152 AF
2153
                                                               call
                                                                              sub_0_2407
sub_0_22CB
                                                                              a, 5(ix)
0x19(ix), a
                                                               ld
                                                               ld
                                                               xor
                                loc_0_2153:
                                                                                                                                                          ; CODE XREF: sub 0 1F72+1D1 j
2153 DD 77 14
                                                              ld
                                                                              0x14(ix), a
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
  2156 DD 77 04
2159 DD 77 06
                                                                            4(ix), a
                                                             ld
  2159 DD 77 06
215C C3 BA 21
215F
215F
                                                             ld
                                                                            6(ix)
                                                                           loc_0_21BA
                                                                                                                                                  ; CODE XREF: sub 0 1F72+8F1 j
                                loc_0_215F:
   215F
                                                                           a, 1
a, #5
d, a
a, h
bc, #
   215F 7D
                                                             14
  215F 7D
2160 C6 05
2162 57
2163 7C
2164 01 15 00
2167 CD 6D 21
216A C3 BA 21
                                                             add
ld
                                                             ld
                                                             ld
call
                                                                           bc, #0x15
sub_0_216D
                                                             jр
                                                                           loc_0_21BA
  216A
216A
216D
216D
                                 ; End of function sub_0
                                        SUBROUTINE
  216D
216D
216D
                                 sub_0_216D:
                                                                                                                                                  ; CODE XREF: sub_0_1F72+1F5\p
  216D CD 6E 23
2170 3D 2171 CO 2172 78
2173 D6 05 2173 D6 05 2175 DD 77 17
2178 3A 48 63
217B A7 217C CA B2 21
217F 3A 05 62
2182 D6 04
2184 BA 2185 D8
                                                             call
                                                                           sub 0 236E
                                                             dec
ret
                                                                           NZ
                                                                           a, b
#5
                                                             ld
                                                             sub
                                                             ld
ld
                                                                           0x17(ix), a
a, (unk_0_6348)
                                                                           a
Z, loc_0_21B2
                                                             and
                                                             jp
ld
sub
                                                                          , roc_U_21B
a, (mario_x)
#4
d
                                                             cp
ret
ld
  2184 BA
2185 D8
2186 3A 80 63
2189 1F
218A 3C
218B 47
218C 3A 18 60
218F 4F
2190 E6 03
2192 B8
2193 D0
2194 21 10 60
2197 3A 03 62
2193 BB
                                                                           C
a, (unk_0_6380)
                                                             rra
                                                             inc
                                                             ld
ld
ld
                                                                           b, a
a, (random_no)
c, a
#3
                                                             and
                                                             cp
ret
ld
                                                                           hl, #controller in
                                                             ld
                                                                           a, (mario_y)
  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
                                                             cp
jp
jp
bit
                                                                           e
Z, loc_0_21B2
                                                                           NC, loc_0_21A9
                                                                           0, (h1)
Z, loc_0_21AE
loc_0_21B2
                                                                                                                                                   ; right?
                                                             jp
                                                                                                                                                   ; no, skip
                                                             jр
  21A9
21A9
21A9
21A9 CB 4E
                                loc_0_21A9:
                                                                                                                                                     CODE XREF: sub_0_216D+31 j
                                                             bit
                                                                            1, (hl)
                                                                                                                                                   ; yes, skip
   21AB C2 B2 21
                                                                           NZ, loc_0_21B2
                                                             jр
  21AE
21AE
21AE
21AE
                                loc_0_21AE:
                                                                                                                                                  ; CODE XREF: sub_0_216D+36 j
                                                                           a, c
#0x18
                                                             ld
  21AF E6 18
21B1 C0
21B2
21B2
                                                             and
                                                                                                                                                  ; CODE XREF: sub_0_216D+F†j
; sub_0_216D+ZEfj ...
; sprite tile #
; switch rolling barrel to going-down-ladder barrel
                                loc_0_21B2:
   21B2 DD 34 07
   21B2
21B5 DD CB 02 C6
                                                             inc
set
                                                                           7(ix)
0, 2(ix)
   21B9 C9
                                                             ret
   21B9
                                 ; End of function sub_0_216D
   21B9
21BA
   21BA
  21BA
21BA D9
21BA
                                                                                                                                                  ; CODE XREF: sub_0_1F72+59<sup>†</sup>j; sub_0_1F72+70<sup>†</sup>j ...
                                loc_0_21BA:
                                                                           a, 3(ix) (hl), a
   21BB DD 7E 03
                                                             ld
ld
                                                                                                                                                  ; set sprite X
  21BE
21BF
                                                                           1
a, 7(ix)
                                                             inc
ld
   21C0 DD 7E 07
                                                                                                                                                  ; set sprite tile #
                                                             ld
inc
ld
                                                                           (hl), a
   21C3
   21C3 //
21C4 2C
21C5 DD 7E 08
                                                                              , 8(ix)
                                                                           a, 8(ix (hl), a
                                                                                                                                                  ; set sprite vflip & palette
   21C8
                                                             1d
                                                                           a, 5(ix)
(h1), a
loc_0_1F8D
   21CA DD 7E 05
21CD 77
                                                                                                                                                   ; set sprite Y
                                                             ld
   21CE C3 8D 1F
                                                             jp
   21CE
21D1 80 FE
                                                                                                                                                   ; DATA XREF: next_attract_action or is 1st byte is input, 2nd is timer
                                 attract_mario_inputs:.dw 0xFE80
  21D1 00 FE 21D1 21D3 01 C0 21D5 04 50 21D7 02 10 21D9 82 60
                                                             .dw 0xC001
                                                             .dw 0x5004
.dw 0x1002
.dw 0x6082
  21DB 02 10
21DD 82 CA
21DF 01 10
21E1 81 FF
                                                             .dw 0x1002
.dw 0xCA82
.dw 0x1001
.dw 0xFF81
  21E1 01 FF
21E3 02 38
21E5 01 80
21E7 02 FF
                                                             .dw 0x3802
.dw 0x8001
.dw 0xFF02
   21E9 04 80
                                                              .dw
                                                                    0x8004
  21E9 04 80
21EB 04 60
21ED 80
21EE
21EE
                                                             .dw
                                                                    0x6004
                                                                    0x80
                                                             SUBROUTINE
11 D1 21

1 21 CC 63

/4 7E

.F5 07

1F6 83

21F7 5F

21F8 1A

21F9 32 1

21FC 2C
                                                                                                                                                  ; CODE XREF: 0000:1977 p
                                next attract action:
                                                             ld
                                                                           de, #attract mario inputs
                                                             ld
ld
                                                                           hl, #attract_movement_entry
a, (hl)
```

rlca add 1d

ld

1d

a, e e, a a, (de)

(controller_in), a

; get entry
; convert to word

add to base ptr to entry 1st byte of entry

; store simulated inputs

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
21FD 7E
21FE 35
21FF A7
2200 C0
2201 1C
2202 1A
2203 77
2204 2D
2205 34
2206 C9
                                                                                        a, (hl) (hl)
                                                                                                                                                                               ; get movement timer
; done?
                                                                        ld
                                                                        dec
                                                                        and
ret
inc
                                                                                         a
NZ
                                                                                                                                                                               i no, return
i ptr 2nd byte of entry
i get 2nd byte
i store as timer
i back to entry
i next entry
                                                                        ld
                                                                                        a, (de)
(hl), a
                                                                        ld
dec
inc
                                                                                         (hl)
2206 C9
2206 C9
2207 C9
2208 C9
2218 C9
2218 C9
2219 C9
2219 C9
2219 C9
2219 C9
2218 C9
22218 C9
22218 C9
22228 C0
2223 C0
2225 C0
2227 E1
                                                                        ret
                                    ; End of function next_attract_action
                                                                    SUBROUTINE
                                    sub 0 2207:
                                                                                                                                                                               ; CODE XREF: 0000:199B p
                                                                                        a, #2
0x30
                                                                       1d
                                                                       rst
ld
                                                                                                                                                                               ; return if level bit not set
                                                                                         a, (gen_purpose_timer)
                                                                        rra
                                                                        ld
ld
                                                                                        hl, #unk_0_6280
                                                                                        a, (h1)
C, loc_0_2219
                                                                        jp
ld
                                                                                        hl, #unk_0_6288
a, (hl)
                                    loc_0_2219:
                                                                                                                                                                               ; CODE XREF: sub 0 2207+B 1 j
                                                                       push
rst
daa
ld
                                                                                         0x28
                                                                                                                                                                               ; go!
                                                                                         (loc_0_2259), hl
                                                                       sbc
ld
nop
nop
                                                                                         (loc_0_22A2), hl
2224 00
2225 00
2225 00
2227 E1
2228 2C
2229 35
222A C2 3A 22
222D 2D
22E 34
222F 2C
2231 CD 43 22
2230 2C
2231 CD 43 22
2234 3E 01
2236 32 1A 62
2239 C9
                                                                       nop
                                                                                        hl
                                                                        pop
                                                                       inc
dec
jp
                                                                                         1
(hl)
                                                                                         NZ, loc_0_223A
                                                                       dec
inc
inc
inc
call
ld
                                                                                         (hl)
                                                                                        sub_0_2243
                                                                                         a, #1
(unk_0_621A), a
                                                                        ld
                                                                        ret
223A
223A
223A
223A
                                     loc_0_223A:
                                                                                                                                                                               ; CODE XREF: sub_0_2207+23 j
                                                                        inc
223A 2C
223B CD 43 22
223E AF
223F 32 1A 62
2242 C9
                                                                       call
xor
ld
                                                                                         sub_0_2243
                                                                                         (unk_0_621A), a
ret
                                     ; End of function sub_0_2207
                                     ; SUBROUTINE
                                                                                                                                                                               ; CODE XREF: sub_0_2207+2A\p; sub_0_2207+34\p ...
                                     sub_0_2243:
                                                                                       a, (mario_x)
#0x7A; 'z'
NC, loc_0_2257
a, (mario_jumping)
a
                                                                        14
                                                                        ср
                                                                        jp
1d
                                                                        and
jp
ld
                                                                                         NZ, loc_0_2257
                                                                                         a, (r
(hl)
                                                                                               (mario_y)
                                                                       cp
ret
                                                                                                                                                                               ; CODE XREF: sub_0_2243+51j
                                    loc 0 2257:
                                                                                                                                                                                ; sub_0_2243+C↑j
                                                                                        hl
                                                                        ret
2258
2258
2259*
2259*
2259*
                                     ; End of function sub_0_2243
                                                                                                                                                                               ; DATA XREF: sub 0 2207+15 w
                                    loc_0_2259:
2259*
2259*E1
225A 2C
225B 2C
225C 2C
225D 2C
225E 35
225F C0
                                                                                        hl
1
1
                                                                       pop
                                                                       inc
inc
inc
dec
ret
                                                                                        1
(hl)
                                                                                         ΝZ
2260 3E 04
2262 77
2263 2D
2264 34
                                                                                        a, #4
(hl), a
                                                                       ld
ld
dec
inc
                                                                                         1
(h1)
2264 34
2265 CD BD 22
2268 3E 78
2268 BE
2268 C2 75 22
226E 2D
2270 2D
2271 34
2272 2C
2273 2C
2274 2C
2275 2D
2275 2D
2275 2D
2276 CD 43 22
2279 3A 05 62
2270 FE 68
2276 E 68
2276 D2 8A 22
2281
                                                                                         sub_0_22BD
a, #0x78; 'x'
(h1)
                                                                      call
ld
cp
jp
dec
dec
inc
inc
```

; CODE XREF: 0000:226B|j

; CODE XREF: 0000:228B-j

NZ, loc 0 2275

sub_0_2243

a, (mario_x) #0x68; 'h' NC, loc_0_228A

inc

dec call

ld cp

jр

loc_0_2275:

loc_0_2281:

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
                                                                    hl, #mario_x (hl)
2281 21 05 62
                                                       ld
2284
        34
                                                       inc
                                                                    sub_0_3FC0 (hl)
2284 34
2285 CD C0 3F
2288 34
2289 C9
                                                       call
inc
ret
228A
228A
228A
                            loc_0_228A:
                                                                                                                                       ; CODE XREF: 0000:227E†j
                                                       rra
jp
rra
ld
                                                                    C, loc_0_2281
                                                                    a, #1
C, loc_0_2295
                                                       jр
                                                        xor
                            loc_0_2295:
                                                                                                                                       ; CODE XREF: 0000:2291↑j
                                                       ld
                                                                    (unk 0 6222), a
                                                       ret
                                                       pop
ld
and
ret
                                                                    a, (ra
#0x3C
                                                                          (random no)
                                                                    NZ
(hl)
                                                       ret
                            loc_0_22A2:
                                                                                                                                       ; DATA XREF: sub 0 2207+19 w
                                                       pop
inc
inc
inc
                                                                    hl
1
1
                                                       inc
dec
ret
ld
                                                                     (h1)
                                                                    NZ (hl), #2
                                                       dec
dec
call
                                                                    (hl)
sub_0_22BD
                                                                    a, #0x68; 'h'
(h1)
                                                       cp
ret
                                                       xor
ld
                                                                    a
b, #0x80 ; 'Ç'
                                                       dec
dec
ld
                                                                     (hl), b
                                                       ld
                                                                     (hl), a
                                                       ret
22BD
22BD
22BD
22BD
                                                      SUBROUTINE
; CODE XREF: 0000:2265<sup>p</sup>; 0000:22AD<sup>p</sup>
                            sub_0_22BD:
                                                       ld
bit
                                                                    a, (hl)
3, l
                                                                    de, #soft_sprite_ram+0x4B
NZ, loc_0_22C9
de, #soft_sprite_ram+0x47
                                                       ld
                            loc_0_22C9:
                                                                                                                                       ; CODE XREF: sub_0_22BD+6 j
                                                       ld
ret
                                                                    (de), a
                             ; End of function sub_0_22BD
                                                   SUBROUTINE
22CB
22CB
22CB
22CB
22CB 3A 48 63
22CE A7
22CF CA E1 22
22D2 3A 80 63
22D5 3D
                                                                                                                                        ; CODE XREF: sub_0_1F72+1D7\p
                             sub_0_22CB:
                                                       ld
                                                                    a, (unk_0_6348)
                                                                    a
Z, loc_0_22E1
a, (unk_0_6380)
a
                                                       and
                                                       jp
ld
                                                       dec
22D5 3D

22D6 EF

22D6 22D7 F6 22

22D9 F6 22

22DB 03 23

22DD 03 23

22DF 1A 23
                                                       rst
                                                                    0x28
                                                                                                                                        ; go!
                                                       .dw loc_0_22F6
.dw loc_0_22F6
.dw loc_0_2303
.dw loc_0_2303
.dw loc_0_231A
                                                                                                                                        ; Jump table
22DF
22E1
22E1
22E1
22E4
22E5
22E6
                             loc_0_22E1:
                                                                                                                                       ; CODE XREF: sub_0_22CB+4^j
22E1 22E1 3A 29 62 22E4 47 22E5 05 22E6 3E 01 22E8 CA F9 22
                                                                    a, (level)
b, a
                                                       ld
ld
                                                       dec
                                                                    b
                                                                    a, #1
Z, loc_0_22F9
                                                       jp
dec
22E8 CA F9 22
22EB 05
22EC 3E B1
22EC CA F9 22
22F1 3E E9
22F3 C3 F9 22
22F6
22F6
                                                                    b
                                                                    a, #0xB1;
Z, loc_0_22F9
a, #0xE9; 'Ú
                                                       jp
ld
                                                                    loc_0_22F9
                                                                                                                                       ; DATA XREF: sub_0_22CB+C^{\dagger}o; sub_0_22CB+E^{\dagger}o
22F6
22F6
22F6
22F6
22F9
22F9
22F9 DD 77 11
22F9
22FC E6 01
22FE 3D
                            loc_0_22F6:
                                                                    a, (random_no)
                                                                                                                                       ; CODE XREF: sub_0_22CB+1D\uparrow j ; sub_0_22CB+23\uparrow j ...
                            loc_0_22F9:
                                                       ld
                                                                     0x11(ix), a
                                                       and
dec
                                                                    #1
        3D
DD 77 10
C9
                                                       ld
                                                                     0x10(ix), a
                                                       ret
2302
2302
2303
2303
                             ; End of function sub_0_22CB
```

loc 0 2303:

2303 3A 18 60

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

cp jp ld ld

2385 2388 2389

238A C1 238B E1

CA 95 23 57 7B

(h1)

Z, loc_0_2395 d, a a, e bc

ld and ld

ld and ld

ld ld sbc ; End of function sub_0_2407

241F

c, a #0xF h, a a, c #0xF0 ; '-'

SUBROUTINE

1, a c, 0x13(ix) b, 0x12(ix)

```
; CODE XREF: sub_0_1AC3+23<sup>p</sup>; sub_0_1AC3+102<sup>p</sup>...
                                   sub_0_241F:
241F 11 00 01 241F 2422 3A 03 62 2425 FE 16 2427 D8 2428 I5 2429 IC 242A FE EA 242C D0 242D 1D 242E 3A 27 62 2431 0F 2432 D0 2433 3A 05 62 2436 FE 58 2438 D0 2439 3A 03 62 243C FE 6C 243E D0 243F E6 C 243E D0 2437 I4 2440 C9
 241F 11 00 01
                                                                    ld
ld
cp
                                                                                     de, #0x100
a, (mario_y)
#0x16
                                                                    ret
dec
inc
                                                                                     d
                                                                                     e
#0xEA ; 'Û'
                                                                    cp
ret
dec
ld
                                                                                     NC
                                                                                     e
a, (level_type)
                                                                     rrca
                                                                     ret
ld
                                                                                     NC
                                                                                     a, (mario_x
#0x58; 'X'
                                                                                           (mario_x)
                                                                     ср
                                                                     ret
                                                                                     NC
                                                                                     a, (mario_y)
#0x6C; '1'
                                                                    ld
cp
ret
                                                                     inc
                                    ret
; End of function sub_0_241F
                                                                   SUBROUTINE |
                                                                                                                                                                        ; CODE XREF: 0000:0D621p
                                    sub_0_2441:
                                                                                     hl, #aNINTENDO+1
a, #0x5E; '^'
b, #6
                                                                                                                                                                        ; anti-tamper check?
                                                                     ld
ld
2448
2448
2448
2449
                                    loc_0_2448:
                                                                                                                                                                        ; CODE XREF: sub_0_2441+9|j
                                                                                    a, (hl)
hl
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
2468 CA 71 24
2471 3D
                                                                     add
                                                                    djnz
ld
and
                                                                                     loc_0_2448
                                                                                      iy, #unk_0_6310
                                                                                     a
Z, loc_0_2456
                                                                     jp
inc
                                    loc_0_2456:
                                                                                                                                                                       ; CODE XREF: sub_0_2441+10 j
                                                                     ld
                                                                                     a, (level_type)
                                                                     dec
ld
                                                                                     a
hl, #barrel_level_tilemap_data
Z, loc_0_2471
                                                                     jp
dec
                                                                     ld
                                                                                     hl, #cement_pie_level_tilemap_data Z, loc_0_2471
                                                                     jp
dec
                                                                                     hl, #elevator_level_tilemap_data
Z, loc_0_2471
hl, #rivet_level_tilemap_data
                                                                     ld
                                                                     jp
ld
246E 21 8B 3C 2471 2471 DD 21 00 63 2471 2475 11 05 00 2478 2478 7E 2478 7F 2478 CA 8B 24 247D 3D 247E CA 9E 24 2481 FE A9 2483 CB 2484 19
                                   loc_0_2471:
                                                                                                                                                                        ; CODE XREF: sub_0_2441+1C^{\dagger}j; sub_0_2441+23^{\dagger}j ...
                                                                                    ix, #unk_0_6300
de, #5
                                                                     ld
                                   loc_0_2478:
                                                                                                                                                                        ; CODE XREF: sub_0_2441+44|j; sub_0_2441+5A|j ...
                                                                     ld
                                                                                     a, (hl)
                                                                                     a
Z, loc_0_2488
                                                                     jp
dec
                                                                                     a
Z, loc_0_249E
                                                                    jp
cp
ret
                                                                                      #0xA9 ;
2484 19
2485 C3 78 24
2488
2488
                                                                                     hl, de
                                                                     add
                                                                                     loc_0_2478
2488
2488 23
2489 7E
248A DD 77 00
                                                                                                                                                                        ; CODE XREF: sub_0_2441+39 j
                                   loc_0_2488:
                                                                     ld
ld
                                                                                    a, (hl)
0(ix), a
248D 23
248E 7E
248F DD 77 15
                                                                     inc
ld
ld
                                                                                     h1
                                                                                           (hl)
                                                                                     a, (hl)
0x15(ix), a
248F DD 77 15
2492 23
2493 23
2494 7E
2495 DD 77 2A
2498 DD 23
                                                                     inc
                                                                                     hl
                                                                                     hl
                                                                     ld
ld
                                                                                            (hl)
                                                                                     a, (hl)
0x2A(ix), a
                                                                     inc
 249A 23
249B C3 78 24
                                                                     inc
                                                                                     hl
loc_0_2478
249E C3
249E
249E
249E
249E 23
249F 7E
                                    loc_0_249E:
                                                                                                                                                                        ; CODE XREF: sub_0_2441+3D<sup>†</sup> j
                                                                     inc
ld
                                                                                    a, (hl)
0(iy), a
249F 7E
24A0 FD 77 00
24A3 23
24A4 7E
24A5 FD 77 15
                                                                    ld
inc
ld
                                                                                           (hl)
                                                                                     a, (hl)
0x15(iy), a
                                                                     ld
24A8
24A9
24AA
                                                                     inc
inc
ld
                                                                                     hl
hl
                                                                                            (hl)
                                                                                     a, (hl)
0x2A(iy), a
24AA /E
24AB FD 77 2A
24AE FD 23
24B0 23
24B1 C3 78 24
                                                                     ld
                                                                                     loc 0 2478
                                                                     jр
                                    ; End of function sub_0_2441
 24B1
                                                             SUBROUTINE
 24B4
 24B4
 24B4
24B4
                                                                                                                                                                        ; CODE XREF: sub_0_1F72+A2\uparrowp ; sub_0_1F72+F6\uparrowp ...
                                    sub_0_24B4:
 24B4 DD 7E 05
 24B4
24B7 FE E8
24B9 D8
                                                                    ld
cp
ret
                                                                                      a, 5(ix)
#0xE8; 'b'
                                                                                     C
a, 3(ix)
#0x2A; '*'
 24BA DD 7E 03
                                                                     1d
 24BD FE 2A
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
24BF D0
                                                   ret
                                                                #0x20 ; ' '
                                                   cp
ret
ld
and
24C0 FE 20
24C0 FE 20
24C2 D8
24C3 DD 7E 15
24C6 A7
24C7 CA D0 24
24CA 3E 03
24CC 32 B9 62
24CF AF
                                                                a, 0x15(ix)
                                                               a
Z, loc_0_24D0
                                                   jp
ld
                                                   ld
                                                                (unk_0_62B9), a
                                                   xor
24D0 24D0 77 00 24D3 DD 77 03 24D6 21 82 60 24D9 36 03 24DB E1 24DC 3A 48 63 24DF A7 24E0 C2 BA 21 24E3 3C 24E4 32 48 63 24E7 24E7 24E7
24D0
                          loc_0_24D0:
                                                                                                                             ; CODE XREF: sub_0_24B4+13 j
                                                               0(ix), a
                                                                3(ix),
                                                   ld
                                                   ld
ld
                                                               hl, #digital_snd_tmr_thump
(hl), #3
                                                                                                                              ; tmr=3
                                                                hl
                                                   pop
ld
                                                               a, (unk_0_6348)
                                                   and
jp
inc
                                                                NZ, loc_0_21BA
                                                   1d
                                                                (unk 0 6348), a
                           jp loc_0_21BA
; End of function sub_0_24B4
24EA
24EA
24EA
24EA
24EA
                                                  SUBROUTINE
                           sub_0_24EA:
                                                                                                                             ; CODE XREF: 0000:1992 p
24EA 3E 02
24EC F7
24ED CD 23 25
                                                               a, #2
0x30
sub_0_2523
                                                   ld
                                                                                                                              ; return if level bit not set
                                                   rst
call
24F0 CD 91 25
24F3 DD 21 A0 65
24F7 06 06
24F9 21 B8 69
                                                   call
ld
ld
                                                               sub_0_2591
ix, #unk_0_65A0
b, #6
hl, #soft_sprite_ram+0xB8
                                                                                                                             ; 6 sprites to update
                                                   ld
24F9 21 B8 69
24FC 24FC DD 7E 00
24FF A7 2500 CA 1C 25
2503 DD 7E 03
2506 77 2507 2C DD 7E 07
                           loc_0_24FC:
                                                                                                                              ; CODE XREF: sub_0_24EA+2F|j
                                                   ld
                                                               a, 0(ix)
                                                   and
                                                               Z, loc_0_251C
a, 3(ix)
(hl), a
                                                   jp
ld
ld
                                                                                                                              ; sprite X
                                                   inc
2508 DD 7E 07
250B 77
                                                   ld
ld
                                                                a, 7(ix) (hl), a
                                                                                                                              ; sprite tile #
                                                   inc
ld
                                                                   8(ix)
250D DD 7E 08
                                                                                                                              ; sprite v flip & palette
250D DD 7E 08
2510 77
2511 2C
2512 DD 7E 05
2515 77
2516 2C
2517
                                                   ld
                                                                (hl), a
                                                               1
a, 5(ix)
(h1), a
                                                   ld
                                                                                                                             ; sprite Y
                                                   ld
inc
2517
2517 DD 19
2519 10 E1
251B C9
                          loc_0_2517:
                                                                                                                             ; CODE XREF: sub 0 24EA+36-1
                                                   add
                                                                ix, de
loc_0_24FC
                                                   djnz
                                                   ret
251C
251C
251C
251C
251C
                           loc_0_251C:
                                                                                                                             ; CODE XREF: sub_0_24EA+16 j
                                                               a, 1
a, #4
1, a
loc_0_2517
                                                   ld
251D C6 04
                                                   add
251F 6F
2520 C3 17 25
                                                   ld
                                                   jр
                           ; End of function sub_0_24EA
2520
2520
                           ; SUBROUTINE
                                                                                                                              ; CODE XREF: sub_0_24EA+31p
                           sub_0_2523:
                                                   ld
                                                               hl, #unk_0_639B
                                                               a, (hl)
                                                   ld
and
                                                               NZ, loc_0_258F
a, (unk_0_639A)
                                                   jp
ld
                                                   and
ret
ld
                                                                b, #6
                                                               de, #0x10
ix, #unk_0_65A0
                                                   ld
                                                   ld
                          loc_0_2539:
                                                                                                                             ; CODE XREF: sub_0_2523+1F|j
2539 DD CB 00 46
                                                   bit
                                                                0, 0(ix)
2539 DD CB 00
253D CA 45 25
2540 DD 19
2542 10 F5
2544 C9
                                                               Z, loc_0_2545
ix, de
loc_0_2539
                                                   jp
add
                                                   djnz
2545
2545
2545
                          loc_0_2545:
                                                                                                                             ; CODE XREF: sub_0_2523+1A j
2545
2545 CD 57 00
2548 FE 60
254A DD 36 05 7C
254E DA 58 25
                                                   call
                                                                rand
                                                               #0x60; '`'
5(ix), #0x7C; '|'
C, loc_0_2558
a, (unk_0_62A3)
                                                   cp
ld
                                                   jp
ld
dec
2551 3A A3 62
2554 3D
2555 C2 6E 25
                                                                NZ, loc_0_256E
2558 C2 6E 25
2558 2558 DD 36 05 CC
255C 3A A6 62
255F 07
                          loc_0_2558:
                                                                                                                             ; CODE XREF: sub_0_2523+2B1j
                                                   ld
                                                               ld
                                                   rlca
; CODE XREF: sub_0_2523+50|j
                                                               3(ix), #7
NC, loc_0_2576
3(ix), #0xF8;
loc_0_2576
                                                   ld
```

; CODE XREF: sub_0_2523+32 j

jр

call

cp jp

rand #0x68 ;

loc_0_2560

loc_0_256E:

256E 256E 256E CD 57 00

2571 FE 68 2573 C3 60 25

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
 25/6 DD 36 00 01
2576 DD 36 00 01
                                                                                                                                  ; CODE XREF: sub_0_2523+41<sup>†</sup> j ; sub_0_2523+48<sup>†</sup> j
                                                                 O(ix), #1
7(ix), #0x4B; 'K'
9(ix), #8
0xA(ix), #3
a, #0x7C; '|
2576
257A DD 36 07 4B
257E DD 36 09 08
2582 DD 36 0A 03
2586 3E 7C
2588 32 9B 63
                                                                                                                                  ; cement pie sprite tile
                                                     ld
                                                     ld
ld
ld
                                                                  (unk_0_639B), a
                                                     ld
258B AF
258C 32 9A 63
258F
                                                                  (unk_0_639A), a
258F
258F 35
2590 C9
                           loc_0_258F:
                                                                                                                                 ; CODE XREF: sub_0_2523+51j
                                                     dec
                                                                  (hl)
                                                     ret
; End of function sub_0_2523
 2590
                                                   SUBROUTINE 
                           sub_0_2591:
                                                                                                                                  ; CODE XREF: sub_0_24EA+61p
                                                     ld
                                                                  ix, #unk 0 65A0
                                                                 de, #0x10
b, #6
                                                     ld
                                                     ld
                           loc_0_259A:
                                                                                                                                  ; CODE XREF: sub 0 2591+2C-j
                                                                 0, 0(ix)
Z, loc_0_25BB
a, 3(ix)
h, a
a, #7
                                                     hit
                                                     jp
ld
ld
                                                     add
                                                     ср
                                                                 #0XE
C, loc_0_25D6
a, 5(ix)
#0x7C; '|'
Z, loc_0_25C0
a, (unk_0_63A6)
                                                     jp
ld
                                                     cp
jp
ld
                                                                  a, h
3(ix), a
                                                     add
                                                     ld
                                                                                                                                  ; CODE XREF: sub_0_2591+D<sup>†</sup> j ; sub_0_2591+42<sup>†</sup> j ...
                           loc 0 25BB:
 25BB DD 19
                                                     add
djnz
                                                                  ix, de
loc_0_259A
       10 DB
 25BF C9
                                                     ret
 25C0
25C0
25C0
25C0
25C0 7C
25C1 FE 80
25C3 CA D6 25
25C6 3A A5 63
25C9 D2 CF 25
25CC 3A A4 63
25CF
25CF 84
                                                                                                                                  ; CODE XREF: sub_0_2591+20 j
                            loc_0_25C0:
                                                                 a, h

#0x80; 'C'

Z, loc_0_25D6

a, (unk_0_63A5)

NC, loc_0_25CF

a, (unk_0_63A4)
                                                     ld
                                                     cp
jp
ld
                                                     jp
ld
                                                                                                                                  ; CODE XREF: sub_0_2591+38 j
                            loc_0_25CF:
25CF 84
25D0 DD 77 03
25D3 C3 BB 25
25D6
                                                                  a, h
3(ix), a
loc_0_25BB
                                                     add
                                                     ld
jp
 25D6
 25D6
25D6 21 B8 69
                                                                                                                                  ; CODE XREF: sub_0_2591+18<sup>†</sup> j ; sub_0_2591+32<sup>†</sup> j
                            loc_0_25D6:
                                                                  hl, #soft_sprite_ram+0xB8
 25D6
                                                     ld
 25D9 3E 06
                                                                 a, #6
b
                                                     14
25DB 90
25DC
25DC
                                                     sub
                           loc 0 25DC:
                                                                                                                                  ; CODE XREF: sub 0 2591+53-1
25DC CA E7 25
25DF 2C
25E0 2C
                                                     jp
inc
inc
                                                                  Z, loc_0_25E7
25E1 2C
25E2 2C
25E3 3D
25E4 C3 DC 25
                                                     inc
inc
dec
                                                                  1
                                                                  loc 0 25DC
                                                     jр
25E7
25E7
25E7
25E7
25E7 AF
                            loc_0_25E7:
                                                                                                                                  ; CODE XREF: sub_0_2591+4B<sup>†</sup>j
                                                     xor
25E7 AF
25E8 DD 77 00
25EB DD 77 03
25EE 77
25EF C3 BB 25
                                                                  0(ix), a
3(ix), a
(h1), a
loc_0_25BB
                                                     ld
ld
ld
jp loc_
; End of function sub_0_2591
                                                    SUBROUTINE
                           sub_0_25F2:
                                                                                                                                  ; CODE XREF: 0000:19AA↑p
                                                     1d
                                                                  a, #2
0x30
                                                     rst
call
                                                                                                                                  ; return if level bit not set
                                                                  sub_0_2602
                                                     call
                                                                  sub 0 262F
                                                     call
                                                                  sub_0_2679
sub_0_2AD3
                                                     ret
```

2601

2602 2605 OF 2606 DA 16 26 2609 21 A0 62 2600 35 22 16 26

260C 35 260D C2 16 26 2610 36 80 2612 2C 2613 CD DE 26 ; End of function sub_0_25F2

ld

jp ld dec jp ld

call

rrca

sub_0_2602:

SUBROUTINE

a, (gen_purpose_timer)

C, loc_0_2616 hl, #unk_0_62A0

sub_0_26DE

(h1) NZ, loc_0_2616 (h1), #0x80; 'Ç'

; CODE XREF: 0000:16D5\p; sub_0_25F2+3\p

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
                                                                                                                                                ; CODE XREF: sub_0_2602+4<sup>†</sup>j; sub_0_2602+B<sup>†</sup>j
2616
2616
21 A1 62
2616
2619 CD E9 26
261C 32 A3 63
261F 3A 1A 60
2622 E6 1F
2624 FE 01
 2616
                              loc 0 2616:
                                                                         hl, #unk_0_62A1
sub_0_26E9
(unk_0_63A3), a
                                                          ld
call
                                                           1d
                                                           ld
and
                                                                         a, (gen_purpose_timer)
#0x1F
                                                           ср
2626 C0
2627 11 E4 69
262A EB
262B CD A6 26
                                                           ret
ld
                                                                         de, #soft_sprite_ram+0xE4 de, hl
                                                                         de, hl
sub_0_26A6
                                                           ex
call
262E C9
262E
262E
262F
                              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
                                                                        hl, #unk_0_62A3
a, (mario_x)
                                                           ld
ld
                                                                        a, (mario_x)
#0xC0 ; 'L'
C, loc_0_266F
a, (gen_purpose_timer)
                                                           cp
jp
ld
rrca
2637 DA 6F 26
263A JA 1A 60
263B DF
263E DA 4C 26
2641 2D
2642 35
2643 3C 4C 26
2646 36 CO
2648 2C
2649 CD DE 26
264C
264C 21 A3 62
                                                                         C, loc_0_264C
                                                           jp
dec
                                                           dec
                                                                          (hl)
                                                                         NZ, loc_0_264C
(hl), #0xC0; L
                                                           jp
ld
                                                           call
                                                                         sub_0_26DE
                                                                                                                                                ; CODE XREF: sub_0_262F+F^j
                              loc 0 264C:
264C 21 A3 62
264C 264F CD E9 26
                                                                                                                                                 ; sub_0_262F+14<sup>†</sup> j ...
                                                           ld
call
ld
                                                                         hl, #unk_0_62A3
sub_0_26E9
2652 32 A5 63
2655 ED 44
2657 32 A4 63
265A 3A 1A 60
265D E6 1F
                                                                         (unk_0_63A5), a
                                                           neg
ld
ld
                                                                         (unk_0_63A4), a
                                                                         a, (gen_purpose_timer)
#0x1F
                                                           and
                                                           ret
dec
ld
 265F C0
2660 2D
 2661 11
2664 EB
         11 EC 69
                                                                         de, #soft_sprite_ram+0xEC
                                                           ex
call
and
ld
                                                                         de hl
 2665 CD A6 26
2668 E6 7F
                                                                         sub_0_26A6
                                                                         #0x7F;
hl, #soft_sprite_ram+0xED
(hl), a
2008 E6 7F
266A 21 ED 69
266D 77
266E C9
266F
                                                           ld
266F
266F
266F CB 7E
2671 C2 4C 26
2674 36 FF
2676 C3 4C 26
2676
2676
                               loc_0_266F:
                                                                                                                                                ; CODE XREF: sub_0_262F+8 j
                                                                         7, (hl)
NZ, loc_0_264C
                                                           jp
ld
                               ld (h1), #0xFF
jp loc_0_264C
; End of function sub_0_262F
 2679
2679
2679
2679
2679
2679
2679 3A 1A 60
267C 0F
                                                          SUBROUTINE
                               sub_0_2679:
                                                                                                                                                ; CODE XREF: sub_0_25F2+9 p
                                                           ld
                                                                         a, (gen_purpose_timer)
                                                           rrca
                                                                         C, loc_0_268D
hl, #unk_0_62A5
(hl)
 267D DA 8D 26
                                                           jp
ld
dec
 2680 21 A5 62
2683 35
2684 C2 8D 26
                                                                         NZ, loc_0_268D
                                                           jp
ld
2687 36 FF
2689 2C
268A CD DE 26
268D
                                                                         (hl), #0xFF
                                                           call
                                                                         sub_0_26DE
268D
268D 21 A6 62
268D
2690 CD E9 26
                                                                                                                                                ; CODE XREF: sub_0_2679+4^j; sub_0_2679+B^j;
                              loc_0_268D:
                                                           ld
                                                                         hl, #unk_0_62A6
                                                           call
                                                                         sub 0 26E9
2693 32 A6 63
2696 3A 1A 60
2699 E6 1F
                                                           ld
ld
                                                                         (unk_0_63A6), a
                                                                         a, (gen_purpose_timer)
#0x1F
                                                           and
                                                           cp
ret
ld
 269B FE 02
269B FE 02
269D C0
269E 11 F4 69
26A1 EB
26A2 CD A6 26
26A5 C9
26A5
26A6
                                                                         NZ
de, #soft_sprite_ram+0xF4
                                                           ex
call
                                                                         de, hl
sub 0 26A6
                              ret; End of function sub_0_2679
26A6
26A6
26A6
26A6
                                     SUBROUTINE
26A6
26A6 2C
26A6
26A7 1A
26A8 17
                                                                                                                                                ; CODE XREF: sub_0_2602+29<sup>p</sup>;
; sub_0_262F+36<sup>p</sup> ...
                              sub_0_26A6:
                                                                         a, (de)
                                                           1d
                                                           rla
 26A9 DA C5 26
26AC 7E
26AD 3C
                                                                         C, loc_0_26C5
a, (hl)
                                                           jp
ld
```

a #0x53 ; 'S'

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

#0xCF ; '¤'

NZ, loc_0_26B5 a, #0x50; 'P'

; CODE XREF: sub_0_26A6+A1j

inc

ср

jp 1d

ld

add ld ld

dec

loc_0_26B5:

26AE FE 53 26B0 C2 B5 26 26B3 3E 50 26B5

77 7D 26B6

26B7 C6 04 26B9 6F 26BA 7E

26BC FE CF

26BB 3D

26B5 26B5

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
NZ, loc_0_26C3
a, #0xD2; 'Ê'
                       loc_0_26C3:
                                                                                                                  ; CODE XREF: sub_0_26A6+18 j
                                                         (hl), a
                                              ret
                       loc_0_26C5:
                                                                                                                 ; CODE XREF: sub_0_26A6+3 j
                                              1d
                                                         a, (hl)
                                              dec
                                                         a
#0x4F ; 'O'
NZ, loc_0_26CE
                                              ср
                                              jp
ld
                                                         a, #0x52 ;
                       loc_0_26CE:
                                                                                                                 ; CODE XREF: sub_0_26A6+23 j
                                              ld
                                                         (hl), a
                                              ld
add
ld
                                                         a, 1
a, #4
1, a
a, (h1)
                                              ld
                                                         a
#0xD3 ; 'Ë'
                                              inc
                                                         NZ, loc_0_26DC
a, #0xD0; 'ð'
                                                                                                                 ; CODE XREF: sub_0_26A6+31 j
                        loc_0_26DC:
                                              ld
                                                         (hl), a
                                              ret
26DD
26DD
26DD
26DE
                        ; End of function sub_0_26A6
26DE
26DE
26DE
26DE
                                            S U B R O U T I N E
                                                                                                                  ; CODE XREF: sub_0_2602+11 p
                        sub 0 26DE:
26DE CB 7E
26DE 26E0 CA E6 26
                                                                                                                  ; sub_0_262F+1A p
                                              bit
                                                         7, (hl)
Z, loc_0_26E6
                                              jp
ld
                                                         (hl), #2
26E3 36 02
26E5 C9
26E6
26E6
26E6
26E6 36 FE
26E8 C9
                                                                                                                  ; CODE XREF: sub 0 26DE+21i
                       loc_0_26E6:
                                              ld
ret
                                                         (hl), #0xFE ; '■'
                       ; End of function sub_0_26DE
26E8
26E8
26E9
26E9
                                             SUBROUTINE
26E9
26E9
26E9
26E9
26E9 3A 1A 60
                                                                                                                  ; CODE XREF: sub_0_2602+17\uparrowp ; sub_0_262F+20\uparrowp ...
                        sub_0_26E9:
                                                         a, (gen_purpose_timer)
#1
26E9
                                              1d
26E9
26EC E6 01
26EE C8
26EF CB 7E
                                              and
ret
bit
                                                         Z
7, (hl)
26EF CB 7E
26F1 3E FF
26F3 C2 F8 26
26F6 3E 01
26F8
26F8 77
26F9 C9
                                                         a, #0xFF
NZ, loc_0_26F8
a, #1
                                              ld
                       loc_0_26F8:
                                                                                                                 ; CODE XREF: sub 0 26E9+A1i
                                              ld
ret
                                                         (hl), a
                        ; End of function sub_0_26E9
26F9
26F9
26FA
26FA
                        ; SUBROUTINE
26FA
                                                                                                                  ; CODE XREF: 0000:19A71p
                        sub_0_26FA:
                                                         a, #4
0x30
a, (mario_x)
#0xF0; '-'
                                              ld
                                              rst
ld
                                                                                                                 ; return if level bit not set
                                                         "uxr" ; '-'
NC, mario_dies_on_elevator
a, (level)
a
                                              cp
jp
ld
dec
                                                                                                                 ; make mario die
                                                         a, (gen_purpose_timer)
NZ, loc_0_271A
                                              jp
and
cp
                                                         Z, loc_0_271E
C, loc_0_2722
                                              jp
jp
ret
271A
271A
271A
271A OF
271B DA 22 27
271E
                        loc 0 271A:
                                                                                                                 ; CODE XREF: sub 0 26FA+121j
                                              rrca
                                                         C, loc_0_2722
                                              jр
                       loc_0_271E:
                                                                                                                 ; CODE XREF: sub 0 26FA+19<sup>†</sup> <sup>†</sup>
271E CD 45 27
2721 C9
2722
                                              call
                                                         sub_0_2745
                                              ret
2722
2722
2722 CD 97 27
                                                                                                                  ; CODE XREF: sub_0_26FA+1C\uparrow j; sub_0_26FA+21\uparrow j
                        loc_0_2722:
                                              call
                                                         sub 0 2797
2722 2725 CD DA 27
2728 06 06
272A 11 10 00
272D 21 58 69
                                              call
ld
ld
                                                         sub_0_27DA

b, #6

de, #0x10

hl, #soft_sprite_ram+0x58
                                                                                                                  ; six elevators
                                              ld
2730 DD 21 00 66
2734
                                              ld
                                                          ix, #unk_0_6600
```

loc 0 2734:

2734 DD 7E 03

77 2C 2C 2C

2740 DD 19

7E 05

2737 2738 2739 273B DD 273E 77 a, 3(ix) (hl), a

a, 5(ix) (hl), a

ix, de

ld

ld inc inc inc

ld ld

add

; CODE XREF: sub_0_26FA+48|j; store coordinates

```
2742 10 F0
                                                                djnz
                                                                               loc_0_2734
2744 C9
2744 C9
2744 C9
2744 C7
2745 C7
2745 C7
2745 C7
2745 C8
2745 A7
2749 C8
2749 A7
2749 C8
274P A7
274E C0
274F AA O3 62
274F AA O3 62
2752 FE CC
2757 FE 43
2759 DA 66 27
2756 DA 66 27
2761 FE 83
2763 DA 87 27
2766
2744 C9
                                                                ret
                                 ; End of function sub_0_26FA
                                                             SUBROUTINE
                                 sub_0_2745:
                                                                                                                                                              ; CODE XREF: sub_0_26FA+24\p
                                                                1d
                                                                                a, (mario on elevator)
                                                                and
ret
                                                                                                                                                              ; on elevator?
; no, return
                                                                 ld
                                                                                a, (mario_jumping)
                                                                 and
                                                                                                                                                              ; jumping?
; yes, return
                                                                 ret
ld
                                                                                NZ
                                                                                      (mario_y)
                                                                                a, (m. #0x2C
                                                                cp
jp
cp
                                                                                C, loc_0_2766
#0x43 ; 'C'
                                                                                                                                                              ; not not elevator
                                                                                C, loc_0_276F
                                                                                                                                                              ; on left elevator
                                                                                #0x6C; '1'
C, loc_0_2766
#0x83; 'â'
                                                                cp
jp
cp
                                                                                                                                                              ; not on elevator
                                                                                #0x83 ; 'â'
C, loc_0_2787
                                                                                                                                                              ; on right elevator
2766
2766
2766 AF
2766
2767 32
                                                                                                                                                              ; CODE XREF: sub_0_2745+F<sup>†</sup>j
; sub_0_2745+19<sup>†</sup>j
; mark off elevator
                                 loc_0_2766:
                                                                 xor
        32 98 63
                                                                ld
inc
ld
                                                                                (mario_on_elevator), a
276A 3C
276B 32 21 62
276E C9
                                                                                (unk_0_6221), a
                                                                 ret
276F
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
277B 32 4F 69
277E C9
                                                                 ld
                                                                                     (mario x)
                                                                cp
jp
dec
                                                                                                                                                              ; make mario die
; on upwards moving elevator
                                                                                C, mario_dies_on_elevator
                                                                                 (mario x), a
                                                                ld
ret
                                                                                 (soft_sprite_ram+0x4F), a
277F
277F
277F AF
277F
                                                                                                                                                              ; CODE XREF: sub_0_26FA+8<sup>†</sup>j
; sub_0_2745+2F<sup>†</sup>j ...
                                 mario_dies_on_elevator:
277F
2780 32 00 62
2783 32 98 63
2786 C9
2787
2787
2787
2787
2787 3A 05 62
                                                                 xor
                                                                                (mario_alive_flag), a
(mario_on_elevator), a
                                                                 14
                                                                 ld
                                                                 ret
                                                                                                                                                              ; CODE XREF: sub_0_2745+1E<sup>†</sup> j
                                 loc_0_2787:
                                                                                a, (mario_x)
                                                                 ld
2787 3A 05 62
278A FE E8
278C D2 7F 27
278F 3C
2790 32 05 62
2793 32 4F 69
2796 C9
2796
                                                                cp
jp
                                                                                #0xE8 ;
                                                                                NC, mario_dies_on_elevator
                                                                                                                                                              ; on downwards moving elevator
                                                                 inc
ld
                                                                                (mario_x),
                                                                ld
                                                                                (soft_sprite_ram+0x4F), a
                                 ret; End of function sub_0_2745
2797
2797
2797
2797
2797
2797
2797 06 06
2799 11 10 00
279C DD 21 00 66
27A0
                                                              SUBROUTINE
                                                                                                                                                              ; CODE XREF: sub_0_26FA+28\uparrow p ; move elevators to the right side
                                 sub_0_2797:
                                                                               b, #6
de, #0x10
ix, #unk_0_6600
                                                                 ld
                                                                 ld
                                                                ld
27A0
27A0
27A0
DD CB 00 46
27A4 CA C2 27
27A7 DD CB 0D 5E
27AB CA C7 27
27AE DD 7E 05
                                                                                                                                                              ; CODE XREF: sub_0_2797+2D|j
                                 loc_0_27A0:
                                                                                0, 0(ix)
                                                                                Z, loc_0_27C2
3, 0xD(ix)
Z, loc_0_27C7
a, 5(ix)
                                                                 jp
bit
jp
ld
2781 3D 77 05

2782 DD 77 05

2785 FE 60

2787 C2 C2 27

2788 DD 36 03 77

2788 DD 36 0D 04

2762
                                                                               a
5(ix), a
"0x60; 1
                                                                 dec
1d
                                                                 ср
                                                                                NZ. loc 0 27C2
                                                                                3(ix), #0x77
0xD(ix), #4
                                                                                                                                                              ; CODE XREF: sub_0_2797+D<sup>†</sup> j ; sub_0_2797+20<sup>†</sup> j ...
                                loc_0_27C2:
27C2 DD 19
27C2
                                                                                ix, de
loc_0_27A0
27C4 10 DA
27C6 C9
                                                                 djnz
                                 loc_0_27C7:
                                                                                                                                                              ; CODE XREF: sub_0_2797+14 j
                                loc_U_Z/C/:

ld a, 5(ix)
inc a
ld 5(ix), a
cp #UxF8;'o'
jp NZ, loc_0_27C2
ld 0(ix), #0
loc_0_27C2
; End of function sub_0_2797
27C7 DD 7E 05
27CA 3C
27CB DD 77 05
27CE FE F8
27D0 C2 C2 27
27D3 DD 36 00 00
27D7 C3 C2 27
27D7
27DA
27DA
27DA
27DA
27DA
27DA
27DD
                                                               SUBROUTINE
                                                                                                                                                              ; CODE XREF: sub_0_26FA+2B<sup>†</sup>p ; move elevators to the left side
                                 sub_0_27DA:
27DA 21 A7 62 27DD 7E 27DE A7 27DF C2 06 28 27E2 06 06
                                                                               hl, #unk_0_62A7
a, (hl)
                                                                 ld
                                                                ld
and
                                                                                NZ, loc_0_2806
                                                                 jp
1d
27E4 DD 21 00 66
27E8
27E8
                                                                 ld
                                                                                ix, #unk_0_6600
                                                                                                                                                              ; CODE XREF: sub_0_27DA+17|j
                                 loc_0_27E8:
27E8 DD CB 00 46
27EC CA F4 27
                                                                bit
                                                                                0.0(ix)
                                                                                Z, loc_0_27F4
```

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27EF DD 19
27F1 10 F5
27F3 C9
27F4
27F4
27F4
27F4 DD 36 00 01
27F8 DD 36 03 37
27FC DD 36 05 F8
2800 DD 36 00 08
2804 36 34
2806
2806
2806
                                                    add
                                                                ix, de loc_0_27E8
                                                    dinz
                                                                                                                              ; CODE XREF: sub 0 27DA+12 j
                          loc_0_27F4:
                                                                0(ix), #1
3(ix), #0x37; '7'
5(ix), #0xF8; '0'
0xD(ix), #8
(h1), #0x34; '4'
                                                    14
                                                    ld
ld
                                                    ld
                          loc_0_2806:
                                                                                                                              ; CODE XREF: sub_0_27DA+5^j
2806 35
2807 C9
2807
2807
                                                   dec
                                                                (h1)
                                                    ret
                           ; End of function sub_0_27DA
2808
2808
2808
2808
                                                  SUBROUTINE
2808 FD 21 00 62
2808 FD 30 62
280C 3A 05 62
280F 4F
                          sub_0_2808:
                                                                                                                              ; CODE XREF: 0000:19B3 p
                                                   ld
ld
                                                                iy, #mario_alive_flag
                                                                a, (mario_x)
ld
                                                   ld
call
                                                                      #0~407
                                                                hl.
                                                                sub_0_286F
                                                    and
                                                    ret
                                                    dec
ld
                                                                                                                              ; die
                                                                a
(mario_alive_flag), a
                                                    ret
                           ; End of function sub_0_2808
                                                  SUBROUTINE
281D
281D
281D
                          sub_0_281D:
                                                                                                                              ; CODE XREF: 0000:19B6 p
281D 06 02
281F 11 10 00
2822 FD 21 80 66
2826
                                                                b, #2
de, #0x10
iy, #unk_0_6680
                                                    ld
                                                   ld
ld
                                                                                                                              ; hammer character data
; CODE XREF: sub_0_281D+12 j
                          loc_0_2826:
                                                   bit
jp
add
                                                                0, 1(iy)
NZ, loc_0_2832
                                                                iy, de
loc_0_2826
                                                   djnz
ret
                          loc_0_2832:
                                                                                                                              ; CODE XREF: sub_0_281D+D j
                                                               c, 5(iy)
h, 9(iy)
1, 0xA(iy)
sub_0_286F
                                                    ld
                                                    ld
                                                   call
and
                                                    ret
                                                   ld
ld
sub
ld
                                                                a, (unk_0_63B9)
                                                                (unk_0_6354), a
                                                    ld
                                                                a, e
(unk_0_6353), a
(unk_0_6351), ix
                                                    ld
ld
2852 C9
2852
2852
2853
                                                    ret
                           ; End of function sub_0_281D
2853
2853
2853
2853
2853
2853 FD 21 00 62
2857 3A 05 62
285A
                                  SUBROUTINE
                                                                                                                              ; CODE XREF: sub_0_1AC3+15D\p
                          sub_0_2853:
                                                                iy, #mario_alive_flag
a, (mario_x)
                                                    ld
                          loc 0 285A:
285A C6 OC 285C 4F 285D 3A 10 60 2860 E6 03 2862 21 08 05 2865 CA 6B 28 2868 21 08 13
                                                                a, #0xC
c, a
a, (controller_in)
                                                    add
                                                   ld
ld
                                                                                                                              ; left/right only
                                                    and
                                                                hl, #0x508
Z, loc_0_286B
hl, #0x1308
                                                    ld
                                                   jp
ld
                                                                                                                              ; not left/right
286B
286B
286B CD 88 3E
                           loc_0_286B:
                                                                                                                              ; CODE XREF: sub_0_2853+12 j
                                                    call
                                                                sub_0_3E88
                           ret
; End of function sub_0_2853
286E C9
286E
286E
286F
                                                SUBROUTINE
286F
286F
286F
286F
286F
286F 3A 27 62
                                                                                                                              ; CODE XREF: sub_0_2808+B\pi; sub_0_281D+1E\pip
                          sub_0_286F:
286F 3A 27
286F
2872 E5
2873 EF
2873 EF
2874 00 00
2876 80 28
2878 B0 28
287A E0 28
287C 01 29
287E 00 00
2880
2880
                                                               a, (level_type)
                                                    1d
                                                    push
                                                                0x28
                                                                                                                              ; go!
                                                    rst
                                                    .dw 0
.dw 11_check_hammer_hit
.dw 12_check_hammer_hit
.dw 13_check_hammer_hit
                                                                                                                              ; Jump table
```

14_check_hammer_hit

b, #0xA a, b (unk_0_63B9), a

de, #0x20; '
ix, #unk_0_6700
sub_0_2913

; DATA XREF: sub_0_286F+7↑o

l1_check_hammer_hit:

pop ld

ld ld

ld 1d call

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
 2891 06 05
                                                                                       b, #5
2891 06 05

2893 78

2894 32 B9 63

2897 1E 20

2899 DD 21 00 64

2890 CD 13 29

28A0 06 01

28A2 78

28A3 32 B9 63

28A6 1E 00

28A8 DD 21 A0 66

28AC CD 13 29

28AF C9
                                                                      ld
                                                                                     a, b

(unk_0_63B9), a

e, #0x20; ix, #unk_0_6400

sub_0_2913
                                                                      ld
                                                                      ld
ld
ld
                                                                                                                                                                          ; fireball character data
                                                                      call
ld
ld
ld
                                                                                      b, #1
a, b
(unk_0_63B9), a
                                                                                      e, #0
ix, #unk_0_66A0
sub_0_2913
                                                                      ld
                                                                     ld
call
                                                                     ret
28AF
28AF
28B0
                                    ; End of function sub_0_286F
 28B0
                                                                                                                                                                           ; DATA XREF: sub_0_286F+9<sup>†</sup>o
; sub_0_3E88+9<sup>†</sup>o
28B0 E1
28B0 E1
                                   12_check_hammer_hit:
b, #5
a, b
(unk_0_63B9), a
                                                                      ld
                                                                      ld
ld
ld
ld
                                                                                       de, #0x20 ; ' ' ix, #unk_0_6400
                                                                                                                                                                         ; fireball character data
                                                                                      ix, #unk_U_6400
sub_0_2913
b, #6
a, b
(unk_0_63B9), a
                                                                      call
ld
                                                                      ld
ld
ld
ld
call
                                                                                       e, #0x10
ix, #unk_0_65A0
sub_0_2913
28CD CD 13 29
28D0 06 01
28D2 78
28D3 32 B9 63
28D6 1E 00
28D8 DD 21 A0 66
28DC CD 13 29
28DF C9
                                                                      ld
ld
ld
                                                                                       b, #1
a, b
                                                                                       a, b
(unk_0_63B9), a
                                                                                       e, #0
ix, #unk_0_66A0
sub_0_2913
                                                                      ld
                                                                     ld
call
                                                                      ret
 28E0
28E0
28E0
28E0 E1
                                   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
28F4 32 B9 63
28F7 1E 10
28F9 DD 21 00 65
28FD CD 13 29
2900 C9
2901
                                                                      pop
ld
ld
                                                                                       hl
                                                                                      n1
b, #5
a, b
(unk_0_63B9), a
de, #0x20; ''
ix, #unk_0_6400
sub_0_2913
                                                                      ld
ld
call
ld
ld
ld
ld
                                                                                                                                                                          ; fireball character data
                                                                                      b, #0xA
a, b
(unk_0_63B9), a
                                                                                       e, #0x10
ix, #unk_0_6500
sub_0_2913
                                                                                                                                                                          ; check if hammer hits a spring
                                                                      1d
                                                                      call
2901
2901
2901 E1
2901
                                                                                                                                                                           ; DATA XREF: sub_0_286F+D<sup>†</sup>o; sub_0_3E88+D<sup>†</sup>o
                                    14_check_hammer_hit:
2901 2902 06 07 2904 78 2905 32 B9 63 2908 11 20 00 290B DD 21 00 64 290F CD 13 29 2913 2913 2913 2913 2913 2913
                                                                                       hl
                                                                      pop
ld
                                                                                      b, #7
a, b
(unk_0_63B9), a
                                                                      ld
ld
                                                                      1d
                                                                                       de, #0x20; ''
ix, #unk_0_6400
                                                                      ld
                                                                                                                                                                          ; fireball character data
                                                                                       sub_0_2913
                                                                      ret
                                                                     SUBROUTINE
2913
2913 DD E5
2913
2915
                                                                                                                                                                           ; CODE XREF: sub_0_286F+1F^p; sub_0_286F+2E^p ...
                                    sub_0_2913:
                                                                     push
                                                                                      ix
2915
2915
2915
DD CB 00 46
2919 CA 4C 29
291C 79
291D DD 96 05
2920 D2 25 29
2923 ED 44
2925
2925
2925
2925
2926 95
2927 DA 30 29
292A DD 96 0A
                                                                                                                                                                           ; CODE XREF: sub_0_2913+3B|j; check if hammer hits something else
                                   loc_0_2915:
                                                                      bit
                                                                                      0, 0(ix)
Z, loc_0_294C
                                                                      jp
ld
                                                                                     a, c
5(ix)
                                                                      sub
jp
                                                                                       NC, loc_0_2925
                                                                      neq
                                    loc_0_2925:
                                                                                                                                                                           ; CODE XREF: sub_0_2913+Dfj
                                                                      inc
                                                                                      1
C, loc_0_2930
0xA(ix)
NC, loc_0_294C
2926 95
2927 DA 30 29
292A DD 96 0A
292D D2 4C 29
2930
                                                                      sub
                                                                      qŗ
                                                                       sub
                                                                      jp
2930
2930 FD 7E 03
2933 DD 96 03
2936 D2 3B 29
                                    loc 0 2930:
                                                                                                                                                                          ; CODE XREF: sub 0 2913+14 j
                                                                                      a, 3(iy)
3(ix)
NC, loc_0_293B
                                                                      1d
                                                                      sub
                                                                      αĖ
2939 ED 44
293B
293B
293B 94
                                                                      neg
                                    loc_0_293B:
                                                                                                                                                                          ; CODE XREF: sub_0_2913+23 j
                                                                      sub
293C DA 45 29
293F DD 96 09
2942 D2 4C 29
                                                                                      C, loc_0_2945
9(ix)
NC, loc_0_294C
                                                                      qŗ
2942 D2 4C
2945
2945
2945 3E 01
2947 DD E1
2949 33
294A 33
294B C9
```

; CODE XREF: sub_0_2913+29 j

; CODE XREF: sub_0_2913+6[†] j ; sub_0_2913+1A[†] j ...

loc_0_2945:

loc_0_294C:

294C 294C 294C 294C DD 19

294E 10 C5

a, #1 ix

ix. de

loc_0_2915

sp

ld pop inc inc ret

add

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2950 AF
2951 DD E1
2953 C9
2953
2953
2954
2954
                                                                                                        xor
                                                                                                                                 a
ix
                                                     pop ix
ret
; End of function sub_0_2913
                                                                                                    SUBROUTINE
2954

2954

2954

2954

2956

F7

2957 CD 74

2958 32 18 62

295D OF

295E OF

295E OF

296E 78

2962 78

2964 C8

2965 FE 01

2964 C8

2965 FE 01

2967 CA 6F 29

2968 DD 36 01 01

2966 C9

2967

2967

2967

2967

2967

2967

2967

2967

2967

2967

2968

2969

2969

2969

2969

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29
                                                     sub 0 2954:
                                                                                                                                                                                                                                                             ; CODE XREF: sub 0 1AC3+1711p
                                                                                                        1d
                                                                                                                                a, #0xB
0x30
                                                                                                        rst
call
                                                                                                                                                                                                                                                             ; return if level bit not set
                                                                                                                                 sub_0_2974
                                                                                                        1d
                                                                                                                                 (unk_0_6218), a
                                                                                                        rrca
                                                                                                        rrca
ld
                                                                                                                                 (digital snd tmr barrel jump priz), a
                                                                                                        ld
and
                                                                                                        ret
                                                                                                        cp
jp
ld
                                                                                                                                 #1
                                                                                                                                Z, loc_0_296F
1(ix), #1
                                                                                                        ret
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2954+13 j
296F DD 36 11 01
2973 C9
2973
2973
2973
                                                                                                        ld
                                                                                                                                 0x11(ix), #1
                                                                                                        ret
                                                      ; End of function sub_0_2954
2974
2974
2974
2974
2974
2974 FD 21 00 62
2978 3A 05 62
2978 4F
297C 21 08 04
297F 06 02
2981 11 10 00
2984 DD 21 80 66
2988 CD 13 29
298B C9
298B
                                                                                                    SUBROUTINE
                                                                                                                                                                                                                                                             ; CODE XREF: sub 0 2954+31p
                                                      sub 0 2974:
                                                                                                                                iy, #mario_alive_flag
a, (mario_x)
                                                                                                        1d
                                                                                                        ld
ld
                                                                                                                                c, a
h1, #0x408
b, #2
de, #0x10
ix, #unk_0_6680
                                                                                                        ld
                                                                                                        ld
ld
                                                                                                                                                                                                                                                             ; hammer character data
                                                                                                        ld
                                                                                                        call
                                                                                                                                 sub_0_2913
                                                     ret
; End of function sub_0_2974
SUBROUTINE
                                                      sub_0_298C:
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_3202+3C|p
                                                                                                                                hl, (unk_0_63C8)
a, l
a, #0xE
l, a
                                                                                                        ld
ld
                                                                                                        add
ld
ld
                                                                                                                                d, (hl)
                                                                                                        inc
                                                                                                        ld
add
ld
                                                                                                                                a, (hl)
a, #0xC
e, a
de, hl
                                                                                                        ex
call
ld
cp
                                                                                                                                 get_tilemap_addr_from_coords
                                                                                                                                 a, (hl)
#0xB0;
299E FE B0
29A0 DA AC 29
29A3 E6 OF
29A5 FE 08
29A7 D2 AC 29
29AA AF
29AB C9
29AC
29AC
                                                                                                                                  C, loc_0_29AC
#0xF
                                                                                                        jp
and
                                                                                                        сp
                                                                                                                                 NC, loc_0_29AC
                                                                                                        jр
 29AC
29AC 3E 01
29AC
29AE C9
                                                     loc_0_29AC:
                                                                                                                                                                                                                                                              ; CODE XREF: sub_0_298C+14^j; sub_0_298C+1B^j;
                                                                                                        ld
                                                                                                                                a, #1
                                                                                                       ret
 29AE
29AE
29AF
29AF
29AF
29AF
29AF
                                                     ; End of function sub_0_298C
                                                                                                     SUBROUTINE
29AF 29AF 3E 04 29B1 F7 29B2 FD 21 00 62 29B9 4F 29B9 4F 29B0 CD 22 2A 29C0 A7 29C1 CA 20 2A 29C6 90 29C7 29C7
                                                     sub_0_29AF:
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2B1C+7|p
                                                                                                        ld
                                                                                                                                 a. #4
                                                                                                        rst
ld
                                                                                                                                 0x30
iy, #mario_alive_flag
                                                                                                                                                                                                                                                              ; return if level bit not set
                                                                                                                                a, (mario_x)
                                                                                                        ld
ld
                                                                                                        ld
call
                                                                                                                                             #0×408
                                                                                                                                 sub_0_2A22
                                                                                                                                a
Z, loc_0_2A20
a, #6
b
                                                                                                        and
                                                                                                        jp
ld
                                                                                                        sub
29C7
29C7
29C7 CA DO 29
29CA DD 19
29CC 3D
29CD C3 C7 29
29D0
29D0
29D0
                                                      loc_0_29C7:
                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_29AF+1E|j
                                                                                                                                Z, loc_0_29D0 ix, de
                                                                                                        jp
add
                                                                                                        jр
                                                                                                                                 loc_0_29C7
```

a, 5(ix)
#4
d, a
a, (mario_y_before_jump)

NC, loc_0_29EE d (mario_x), a a, #1 b, a

; CODE XREF: sub 0 29AF+181i

; check if on or below elevator

; flag on elevator

29D0 29D0 7E 05
29D0 DD 7E 05
29D3 D6 04
29D5 57
29D6 3A 0C 62
29D9 C6 05
29DB BA 29DC D2 EE 29
29DF 7A 29E0 D6 08
29E0 D6 08
29E0 32 05 62
29E5 3E 01
29E7 47

loc_0_29D0:

ld sub ld ld add cp

jp ld sub ld

1d

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
29E8 32 98 63
                                                     ld
                                                                 (mario_on_elevator), a
29EB 33
29EC 33
29ED C9
29EE
                                                     inc
29EE
29EE
29EE
29EE
3A OC 62
29F1 D6 OE
29F3 BA
29F4 D2 1B 2A
29F7 3A 10 62
29FA A7
29FB 3A 03 62
                           loc_0_29EE:
                                                                                                                                 ; CODE XREF: sub 0 29AF+2D1 i
                                                     ld
                                                                                                                                 ; collide with side of elevator
                                                                      (mario_y_before_jump)
                                                                 a, (r
#0xE
                                                     sub
                                                    cp
jp
ld
                                                                 NC, loc_0_2A1B
a, (unk_0_6210)
                                                     and
29FA A7
29FB 3A 03 62
29FE CA 08 2A
2A01 F6 07
2A03 D6 04
                                                     1d
                                                                     (mario_y)
loc_0_2A08
                                                     jp
                                                     or
                                                     sub
jp
                                                                 loc_0_2A0E
                           loc_0_2A08:
                                                                                                                                ; CODE XREF: sub 0 29AF+4F1i
                                                     sub
                                                    add
                                                                 a, #4
                           loc_0_2A0E:
                                                                                                                                ; CODE XREF: sub_0_29AF+56 j
                                                                 (mario_y), a
(soft_sprite_ram+0x4C), a
                                                     ld
ld
                                                     ld
                                                     inc
                                                                 sp
                                                                 sp
                                                     ret
                                                                                                                                ; CODE XREF: sub_0_29AF+45 j
                           loc 0 2A1B:
                                                                 (mario_alive_flag), a
                                                     ret
                           loc_0_2A20:
                                                                                                                                 ; CODE XREF: sub_0_29AF+12<sup>†</sup>j
                                                     ld
                                                                 b, a
                                                    ret
                           ; End of function sub_0_29AF
                                                   SUBROUTINE
                                                                                                                                ; CODE XREF: sub 0 29AF+E p
                           sub_0_2A22:
                                                                b, #6
de, #0x10
ix, #unk_0_6600
                                                    ld
ld
                                                     ld
                                                    call
ret
                                                                 sub_0_2913
                            ; End of function sub_0_2A22
SUBROUTINE
                                                                                                                                ; CODE XREF: sub_0_1F72+E5\uparrow p; sub_0_1F72+188\uparrow p
                           sub_0_2A2F:
                                                                 a, 3(ix)
                                                                a, 5(ix)

a, 5(ix)

a, #4

1, a
                                                     ld
                                                     14
                                                    add
ld
                                                    push
call
pop
ld
                                                                 hl
                                                                 get_tilemap_addr_from_coords
de
a, (h1)
                                                    cp
jp
and
                                                                 #0xB0 ;
                                                                     loc_0_2A7B
2A46 FE 08
2A48 D2 78 2A
2A4B 7e
2A4C FE C0
2A4E CA 7B 2A
2A51 DA 69 2A
2A54 FE D0
2A56 DA 66 2A
2A59 FE E0
2A5B DA 63 2A
2A5E FE T0
2A60 DA 6E 2A
2A63 3
2A63 86 0F
2A65 3D
2A66 C3 72 2A
                                                     ср
                                                                 NC, loc_0_2A7B
a, (hl)
#0xC0; 'L'
                                                     jp
ld
                                                    cp
jp
cp
jp
cp
                                                                 Z, loc_0_2A7B
                                                                     loc_0_2A69
                                                                 #0xD0 ; 'ð'
C, loc_0_2A6E
                                                                 #0xE0
                                                                 C, loc_0_2A63
#0xF0; '-'
                                                                 C, loc_0_2A6E
                                                     jр
                           loc_0_2A63:
                                                                                                                                ; CODE XREF: sub_0_2A2F+2Cfj
                                                     and
                                                                 #0xF
2A65 3D
2A66 C3 72 2A
2A69
2A69
2A69
                                                     jp
                                                                 loc 0 2A72
                                                                                                                                ; CODE XREF: sub_0_2A2F+22 j
2A69 32 FF 2A6B C3 72 2A 2A6E 2A6E 2A6E 2A6E 2A70 D6 09 2A72 2A72 2A72 4F 2A72 2A73 7B 2A74 E6 F8 2A76 81 2A77 BB 2A78 DA 7D 2A
                           loc 0 2A69:
                                                     1d
                                                                     #0xFF
                                                                 loc_0_2A72
                                                     jр
                                                                                                                                ; CODE XREF: sub_0_2A2F+27<sup>†</sup> j ; sub_0_2A2F+31<sup>†</sup> j
                           loc_0_2A6E:
```

; CODE XREF: sub_0_2A2F+37[†]j; sub_0_2A2F+3C[†]j

; CODE XREF: $sub_0_2A2F+12\uparrow j$; $sub_0_2A2F+19\uparrow j$...

#0xF

c, a a, e #0xF8

; (0)

e C, loc_0_2A7D

#9

sub

ld ld and

add cp jp

loc_0_2A72:

loc 0 2A7B:

2A77 BB 2A78 DA 2A7B

2A7B AF

7D 2A

```
2A7B
2A7C C9
2A7D
2A7D
2A7D
                                                                                                                                      а
                                                                                                                                                                                                                                                                         ; CODE XREF: sub_0_2A2F+49 j
                                                        loc_0_2A7D:
 2A7D D6 04
2A7F DD 77 05
2A82 3E 01
2A84 C9
                                                                                                            sub
                                                                                                            ld
ld
                                                                                                                                      5(ix), a
                                                                                                                                      a, #1
                                                                                                            ret
2A84
2A84
2A85
2A85
                                                         ; End of function sub_0_2A2F
SUBROUTINE
                                                        sub_0_2A85:
                                                                                                                                                                                                                                                                         ; CODE XREF: 0000:19A1\u00e1p
                                                                                                            ld
                                                                                                                                      a. (mario climbing)
                                                                                                            and
ret
ld
                                                                                                                                                                                                                                                                         ; climbing?
; yes, return
                                                                                                                                      a, (mario_jumping)
                                                                                                            and
                                                                                                                                                                                                                                                                          ; jumping?
                                                                                                            ret
ld
                                                                                                                                      a, (mario_on_elevator) #1
                                                                                                                                                                                                                                                                         ; on elevator?
; yes, return
                                                                                                            cp
ret
                                                                                                            ld
sub
ld
ld
                                                                                                                                      a, (mario_y)
#3
                                                                                                                                     h, a
a, (mario_x)
                                                                                                                                     a, (mar:
a, #0xC
1, a
h1
                                                                                                            add
ld
                                                                                                            push
call
pop
ld
2AA2 CD F0 2F
2AA5 D1
2AA6 7E
2AA7 FE B0
                                                                                                                                      get_tilemap_addr_from_coords
de
                                                                                                                                      a, (hl)
                                                                                                            cp
jp
and
                                                                                                                                       #0xB0 ;
2AA9 DA B4 2A
2AAC E6 OF
2AAE FE 08
                                                                                                                                      C, loc_0_2AB4
#0xF
                                                                                                            ср
2AAE FE 08
2AB0 D2 B4 2A
2AB3 C9
2AB4
2AB4
2AB4
2AB4 7A
2AB5 E6 07
2AB7 CA CD 2A
2ABA 01 20 00
2ABD ED 42
2ABF 7E
                                                                                                            jp
ret
                                                                                                                                      NC. loc 0 2AB4
                                                                                                                                                                                                                                                                          ; CODE XREF: sub_0_2A85+24 j
                                                       loc_0_2AB4:
                                                                                                                                                                                                                                                                          ; sub_0_2A85+2B1j
                                                                                                                                      a, d
#7
Z, loc_0_2ACD
                                                                                                            ld
                                                                                                            and
                                                                                                            jp
ld
sbc
                                                                                                                                      bc, #0x20;
hl, bc
2ABD ED 42
2ABF 7E
2ACO FE BO
2AC2 DA CD 2A
2AC5 E6 OF
2AC7 FE 08
2AC9 D2 CD 2A
2ACC C9
2ACD
                                                                                                            ld
                                                                                                                                                (hl)
                                                                                                            cp
jp
and
                                                                                                                                                loc_0_2ACD
                                                                                                            cp
jp
ret
                                                                                                                                      NC, loc_0_2ACD
2ACD
2ACD
2ACD 3E 01
2ACD
                                                                                                                                                                                                                                                                              CODE XREF: sub_0_2A85+32<sup>†</sup> j sub_0_2A85+3D<sup>†</sup> j ...
                                                        loc_0_2ACD:
                                                                                                            ld
                                                                                                                                      a, #1
(unk_0_6221), a
 2ACF 32 21 62
                                                                                                            ld
 2AD2 C9
2AD2
2AD2
                                                        ret
; End of function sub_0_2A85
2AD2 2AD3 2AD3 2AD3 2AD3 2AD3 2AD3 2AD6 47 2AD7 3A 05 62 2AD7 FE 78 2AD7 FE 78 2AD7 FE C8 2AD7 FE C
                                                                                                            SUBROUTINE
                                                        sub_0_2AD3:
                                                                                                                                                                                                                                                                        ; CODE XREF: sub_0_25F2+C1p
                                                                                                                                     a, (mario_y)
b, a
                                                                                                            ld
                                                                                                            ld
                                                                                                                                                (mario_x)
                                                                                                            cp
jp
cp
                                                                                                                                                loc_0_2AEA
                                                                                                                                       Z, loc_0_2AF6
                                                                                                                                      Z, loc_0_2AF0
                                                                                                            jр
                                                                                                            ret
2AEA
2AEA
2AEA
                                                        loc_0_2AEA:
                                                                                                                                                                                                                                                                         ; CODE XREF: sub_0_2AD3+9<sup>†</sup>j
2AEA
2AEA 3A A3 63
2AED C3 02 2B
2AF0
2AF0
2AF0
2AF0
2AF7 3A A6 63
2AF3 C3 02 2B
2AF6
2AF6
                                                                                                            ld
                                                                                                                                              (unk 0 63A3)
                                                                                                                                      loc_0_2B02
                                                                                                            jp
                                                                                                                                                                                                                                                                         ; CODE XREF: sub_0_2AD3+13 i
                                                        loc_0_2AF0:
                                                                                                            ld
                                                                                                                                      a, (unk_0_63A6)
loc_0_2B02
                                                                                                            jр
2AF6 2AF6 2AF6 78 2AF6 78 2AF7 FE 80 2AF9 3A A5 63 2AFC D2 02 2B 2B02 2B02 2B02 2B03 32 03 62 2B06 32 4C 69 2B06 21 03 62 2B07 1F 24 2B0C 21 03 62 2B0F 1D 2B10 CA 18 2B
                                                       loc_0_2AF6:
                                                                                                                                                                                                                                                                         ; CODE XREF: sub_0_2AD3+E^j
                                                                                                            ld
                                                                                                                                      a, b
#0x80; 'Ç'
                                                                                                            cp
ld
                                                                                                                                      a, (unk_0_63A5)
NC, loc_0_2B02
a, (unk_0_63A4)
                                                                                                                                                                                                                                                                         ; CODE XREF: sub_0_2AD3+1A<sup>†</sup>j; sub_0_2AD3+20<sup>†</sup>j ...
                                                       loc_0_2B02:
                                                                                                            add
                                                                                                                                       a, b
(mario_y), a
                                                                                                            ld
ld
call
ld
dec
                                                                                                                                       (soft_sprite_ram+0x4C), a
sub_0_241F
                                                                                                                                      hl, #mario y
                                                                                                                                      e
Z, loc_0_2B18
d
2B0F 1D
2B10 CA 18 2B
2B13 15
2B14 CA 1A 2B
2B17 C9
2B18
2B18
                                                                                                            jp
dec
                                                                                                                                      Z, loc_0_2B1A
                                                                                                            qŗ
                                                       loc 0 2B18:
 2B18
                                                                                                                                                                                                                                                                        ; CODE XREF: sub 0 2AD3+3D1 j
 2B18 35
                                                                                                                                      (hl)
```

```
; CODE XREF: sub_0_2AD3+41 j
sub_0_2B1C:
                                                                                                                         ; CODE XREF: sub_0_1AC3+1421p
                                                 1d
                                                             ix, #mario_alive_flag
sub_0_2B29
                                                 call
call
                                                             sub_0_29AF
                                                 xor
                                                 1d
                                                             b, a
                                                 ret
                          ; End of function sub_0_2B1C
SUBROUTINE
                          sub_0_2B29:
                                                                                                                         ; CODE XREF: sub_0_2B1C+4\(^1\)p
                                                             a, (level_type)
                                                 dec
                                                 jp
ld
ld
ld
                                                             NZ 1oc 0 2B53
                                                                  (mario_y)
                                                                 (mario_x)
                                                             a,
                                                 add
ld
call
                                                             a, #7
1, a
                                                             sub_0_2B9B
2B3D A7
2B3E CA 51 2B
2B41 7B
2B42 91
2B43 FE 04
2B48 79
2B49 D6 07
2B48 32 05 62
2B4E 3E 01
2B50 47
2B51
2B51 E1
2B52 C9
2B53
2B53
                                                 jp
1d
                                                             Z, loc_0_2B51
                                                 sub
                                                 cp
jp
ld
                                                             NC, loc_0_2B74
                                                 sub
                                                             (mario_x), a
                                                 ld
                         loc_0_2B51:
                                                                                                                         ; CODE XREF: sub 0 2B29+151i
                                                             hl
2B53
2B53
2B53 3A 03 62
                          loc_0_2B53:
                                                                                                                         ; CODE XREF: sub_0_2B29+4^j
                                                             a, (mario_y)
#3
                                                 ld
2B56 D6 03
2B58 67
2B59 3A 05 62
2B5C C6 07
                                                 sub
ld
ld
                                                                  (mario_x)
                                                             a,
add
                                                 ld
call
cp
                                                              sub_0_2B9B
#2
                                                             Z, loc_0_2B7A
                                                 jp
ld
                                                                 d
                                                 add
ld
                                                             a, #7
h, a
                                                 ld
                                                 call
and
ret
                                                              sub_0_2B9B
                                                 jр
                                                             loc 0 2B7A
                         loc_0_2B74:
                                                                                                                         ; CODE XREF: sub_0_2B29+1C<sup>†</sup>j
                                                             a, #0
b, #0
hl
                                                 1d
                                                 ld
                                                 pop
                                                 ret
2B7A
2B7A
2B7A
2B7A
3A 10 62
                                                                                                                         ; CODE XREF: sub_0_2B29+3B<sup>†</sup>j; sub_0_2B29+48<sup>†</sup>j
                         loc_0_2B7A:
287A 3A 10 62

287A 2

287D A7

287E 3A 03 62

2881 CA 8B 2B

2884 F6 07

2886 D6 04

2888 C3 91 2B

2888
                                                             a, (unk_0_6210)
a
                                                 ld
and
ld
                                                                  (mario y)
                                                             a,
Z,
                                                 jp
or
sub
                                                                 loc_0_2B8B
                                                              loc 0 2B91
                                                 jр
2B8B
2B8B
2B8B D6 08
                          loc_0_2B8B:
                                                                                                                         ; CODE XREF: sub_0_2B29+58 j
                                                             #8
#7
a, #4
                                                 sub
2B8D F6 07
2B8F C6 04
2B91
2B91
                                                 add
                                                                                                                         ; CODE XREF: sub_0_2B29+5F1j
                          loc 0 2B91:
2B91 32 03 62
2B94 32 4C 69
2B97 3E 01
2B99 E1
                                                 1d
                                                              (mario v)
                                                 ld
ld
                                                              (soft_sprite_ram+0x4C), a
                                                             a, #1
hl
                          pop hl ret; End of function sub_0_2B29
2B9A C9
2B9A
2B9A
2B9B
2B9B
2B9B
                                 SUBROUTINE
2B9B
2B9B
2B9B E5
2B9B E5
2B9C CD F0 2F
2B9F D1
2BA0 7E
2BA1 FE B0
                                                                                                                         ; CODE XREF: sub_0_2B29+11^p; sub_0_2B29+36^p ...
                         sub 0 2B9B:
                                                             get_tilemap_addr_from_coords
de
a, (h1)
                                                 call
                                                 pop
ld
                                                              a, (hl)
#0xB0;
                                                 ср
                                                                 loc_0_2BD9
                                                 jp
and
2BA3 DA D9 2B
2BA6 E6 OF
```

```
2BA8 FE 08
2BAA D2 D9 2B
                                                                        NC, loc_0_2BD9
a, (hl)
#0xC0; 'L'
Z, loc_0_2BD9
                                                          jp
ld
cp
jp
cp
jp
2BAA D2 D9 2B
2BAD 7E
2BAE FE C0
2BB0 CA D9 2B
2BB3 DA DC 2B
2BB6 FE D0
2BB8 DA CB 2B
2BBB FE E0
2BBB FE E0
                                                                             loc_0_2BDC
                                                                             loc_0_2BCB
                                                                        #0xE0 ;
                                                          cp
jp
cp
2BBD FE EU
2BBD DA C5 2B
2BC0 FE F0
2BC2 DA CB 2B
2BC5
                                                                            loc_0_2BC5
                                                                        C, loc_0_2BCB
2BC5
2BC5 E6 OF
2BC7 3D
2BC8 C3 CF 2B
                              loc_0_2BC5:
                                                                                                                                             ; CODE XREF: sub_0_2B9B+221j
                                                          and
                                                                        #0xF
                                                                        loc 0 2BCF
                                                          jр
2BCB
2BCB
2BCB
2BCB E6 OF
                                                                                                                                              ; CODE XREF: sub_0_2B9B+1D<sup>†</sup>j; sub_0_2B9B+27<sup>†</sup>j
                              loc_0_2BCB:
 2BCB E0 0F
2BCB
2BCD D6 09
2BCF
                                                                        #0xF
#9
                                                                                                                                             ; CODE XREF: sub 0 2B9B+2D1i
 2BCF
                             loc_0_2BCF:
                                                          ld
ld
2BD1 E6 F8
2BD3 81
2BD4 4F
2BD5 BB
                                                                        #0xF8 ; '°'
                                                          and
 2BD3 81
2BD4 4F
2BD5 BB
2BD6 DA E1 2B
                                                                        a, c
c, a
                                                          add
                                                          ld
                                                          cp
jp
                                                                        e
C, loc_0_2BE1
2BD9
2BD9
2BD9 AF
2BD9
                                                                                                                                              ; CODE XREF: sub_0_2B9B+8<sup>†</sup>j; sub_0_2B9B+F<sup>†</sup>j ...
                              loc_0_2BD9:
2BD9
2BDA 47
2BDB C9
2BDC
2BDC
2BDC 7B
2BDD 66 F8
2BDF 3D
2BEO 4F
2BE1
2BE1
                                                          xor
                                                          1d
                                                                        b, a
                              loc_0_2BDC:
                                                                                                                                             ; CODE XREF: sub_0_2B9B+18<sup>†</sup>j
                                                                        a, e
#0xF8 ; '°'
                                                          and
                                                          ld
 2BE1
                              loc 0 2BE1:
                                                                                                                                              ; CODE XREF: sub 0 2B9B+3B1 j
2BE1 3A 0C 62
2BE4 DD 96 05
2BE7 83
2BE8 B9
                                                          14
                                                                             (mario_y_before_jump)
                                                          sub
add
                                                                        a, e
                                                                       Z, loc_0_2BEF
NC, loc_0_2BF8
                                                          cp
jp
jp
 2BE9 CA EF 2B
2BEC D2 F8 2B
2BEF
                              loc_0_2BEF:
 2BEF
                                                                                                                                             ; CODE XREF: sub 0 2B9B+4E11
ld
                                                                        a, c
#7
                                                          sub
ld
                                                                         (mario_x), a
                                                          jp
                                                                        loc_0_2BFD
                                                                                                                                             ; CODE XREF: sub_0_2B9B+51 j
                              loc 0 2BF8:
 2BF8 3E 02
                                                          ld
                                                                        a, #2
b, #0
 2BFA 06 00
2BFC C9
2BFD
                                                          ld
ret
 2BFD
2BFD
2BFD 3E 01
                              loc_0_2BFD:
                                                                                                                                             ; CODE XREF: sub_0_2B9B+5A<sup>†</sup> j
                                                                       a, #1
b, a
hl
hl
                                                          ld
 2BFF 47
2C00 E1
2C01 E1
2C02 C9
                                                          ld
                                                         pop
                                                          ret
2C02
2C02
2C03
2C03
                              ; End of function sub_0_2B9B
                              ; SUBROUTINE
2C03
2C03
2C03
2C03
                              sub_0_2C03:
                                                                                                                                              ; CODE XREF: 0000:1989 p
         3E 01
                                                                        a, #1
0x30
                                                          ld
        F7
D7
3A 93 63
                                                          rst
rst
ld
                                                                                                                                              ; return if level bit not set
; return if mario not alive
                                                                        a, (barrel_deployment)
                                                          rrca
ret
ld
2COA OF

2COB D8

2COC 3A B1 62

2COF A7

2C10 C8

2C11 4F

2C12 3A B0 62

2C15 D6 02
                                                                        a, (unk_0_62B1)
                                                          and
                                                          ret
                                                                        c, a
a, (unk_0_62B0)
#2
                                                          ld
ld
                                                          sub
 2C17 B9
2C18 DA 7B 2C
2C1B 3A 82 63
2C1E CB 4F
                                                          cp
jp
ld
bit
                                                                        C, loc_0_2C7B
a, (unk_0_6382)
1, a
2C1E CB 4F
2C20 C2 86 2C
2C23 3A 80 63
2C26 47
2C27 3A 1A 60
2C2A E6 1F
2C2C
2C2C
2C2C B8
                                                          jp
ld
ld
                                                                        NZ, loc_0_2C86
a, (unk_0_6380)
                                                                        a, (1
b, a
                                                                        a, (gen_purpose_timer)
#0x1F
                                                          ld
                              loc_0_2C2C:
                                                                                                                                             ; CODE XREF: sub_0_2C03+2D j
                                                          ср
 2C2D CA 33 2C
2C30 10 FA
2C32 C9
2C33
                                                                        Z, loc_0_2C33
loc_0_2C2C
                                                          jp
djnz
                                                          ret
                                                                                                                                             ; CODE XREF: sub_0_2C03+2Afj
                              loc_0_2C33:
 2C33
         3A B0 62
                                                          ld
                                                                        a, (unk_0_62B0)
 2C36 CB 3F
2C38 B9
2C39 DA 41 2C
                                                          srl
cp
                                                                        C, loc_0_2C41
                                                          jp
ld
                                                                             (random_no+1)
 2C3C 3A
2C3F 0F
              19 60
                                                          rrca
```

```
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2C40 D0
                                                   ret
2C41
2C41
2C41
2C41 CD 57 00
2C44 E6 0F
                          loc_0_2C41:
                                                                                                                              ; CODE XREF: sub_0_2C03+36 j
                                                    call
2C46 C2 86 2C
                                                                NZ, loc_0_2C86
                                                    jр
2C49
2C49
2C49 3E 01
                          loc_0_2C49:
                                                                                                                              ; CODE XREF: sub_0_2C03+7B|j
                                                   ld
                                                                a, #1
2C4B
2C4B
2C4B 32 82 63
2C4E 3C
                          loc_0_2C4B:
                                                                                                                              ; CODE XREF: sub_0_2C03+80 | j
                                                                (unk_0_6382), a
2C4E 3C 2C4F 2C4F 2C4F 2C4F 32 8F 63 2C52 3E 01 2C54 89 2C5B 8C 2C5E 32 B2 62 2C61 11 20 00 2C64 21 00 64 2C67 06 05 2C69 2C69 2C69 2C66 7E 2C6A A7
                                                   inc
                           loc_0_2C4F:
                                                                                                                              ; CODE XREF: sub_0_2C03+89 | j
                                                    ld
                                                                (unk_0_638F), a
                                                    ld
                                                                (unk_0_6392),
                                                   ld
ld
                                                                a, (unk_0_62B2)
                                                    ср
                                                    ret
                                                                NZ
                                                    sub
ld
                                                                 (unk_0_62B2), a
                                                    ld
                                                                de, #0x20; ''hl, #unk_0_6400b, #5
                                                                                                                             ; fireball character data
                                                    ld
                                                    ld
                          loc_0_2C69:
                                                                                                                              ; CODE XREF: sub 0 2C03+6C-j
ld
                                                                a, (hl)
                                                                a
Z, loc_0_2C72
hl, de
                                                    jp
add
                                                                loc_0_2C69
                                                   djnz
ret
                          loc_0_2C72:
                                                                                                                              ; CODE XREF: sub_0_2C03+68 j
                                                                a, (unk_0_6382)
#0x80 ; 'Ç'
                                                    ld
                                                    or
ld
                                                                (unk_0_6382), a
                                                                                                                              ; CODE XREF: sub_0_2C03+15 j
                          loc_0_2C7B:
                                                                a, #2
                                                    add
                                                    ср
                                                                Z, loc_0_2C49
                                                    jp
ld
                                                                loc_0_2C4B
                                                    jp
2C86
2C86 AF
2C86
                                                                                                                              ; CODE XREF: sub_0_2C03+1D^{\dagger}j; sub_0_2C03+43^{\dagger}j
                          loc_0_2C86:
2C86
2C87 32 82 63
2C8A 3E 03
2C8C C3 4F 2C
2C8C
                                                    xor
                                                                (unk_0_6382), a
a, #3
loc_0_2C4F
                                                    ld
                                                    ld
                                                    jр
                           ; End of function sub_0_2C03
2C8C
2C8F
2C8F
2C8F
                                                   SUBROUTINE
2C8F
2C8F

2C8F 3E 01

2C91 F7

2C92 D7

2C93 3A 93 63

2C96 0F
                           sub_0_2C8F:
                                                                                                                              ; CODE XREF: 0000:1986 p
                                                                a, #1
0x30
                                                   rst
rst
ld
                                                                                                                              ; return if level bit not set ; return if mario not alive
                                                                0x10
                                                                a, (barrel_deployment)
2C96 OF
2C97 DA 15 2D
2C9A 3A 92 63
2C9D OF
2C9E DO
                                                    rrca
                                                   jp
ld
rrca
                                                                C, loc 0 2D15
                                                                a, (unk_0_6392)
                                                    ret
2C9F DD 21 00 67
2CA3 11 20 00
2CA6 06 0A
2CA8
                                                               ix, #unk_0_6700
de, #0x20; ''
b, #0xA
                                                    1d
                                                    ld
2CA8
2CA8 DD 7E 00
2CAB 0F
2CAC DA B3 2C
                          loc_0_2CA8:
                                                                                                                             ; CODE XREF: sub_0_2C8F+26 j
                                                    ld
                                                                a, 0(ix)
                                                    rrca
                                                   jp
rrca
jp
                                                                C, loc_0_2CB3
2CAF OF
2CBO D2 B8 2C
2CB3
                                                                NC, loc_0_2CB8
                                                                                                                              ; CODE XREF: sub 0 2C8F+1D1i
2CB3
                          loc_0_2CB3:
2CB3 DD 19
2CB5 10 F1
2CB7 C9
                                                   add
djnz
                                                                ix, de loc_0_2CA8
                                                   ret
2CB8
2CB8
2CB8
2CB8 DD 22 AA 62
                          loc_0_2CB8:
                                                                                                                              ; CODE XREF: sub_0_2C8F+21 j
                                                                (unk_0_62AA), ix
                                                    ld
2CB8 DD 22 AA 62
2CBC DD 36 00 02
2CC0 16 00
2CC2 3E 0A
2CC4 90
2CC5 87
2CC6 87
2CC7 5F
                                                   ld
ld
ld
                                                                0(ix), #2
d, #0
a, #0xA
b
                                                    sub
                                                   add
add
ld
ld
2CC7 5F
2CC8 21 80 69
2CCB 19
2CCC 22 AC 62
2CCF 3E 01
2CD1 32 93 63
2CD4 11 01 05
2CD7 CD 9F 30
2CDA 21 B1 62
2CDD 35
                                                                hl, #soft_sprite_ram+0x80
                                                    add
ld
ld
                                                                hl, de
                                                                (unk_0_62AC), hl
                                                                a, #1 (barrel_deployment), a
```

; update_bonus_timer

; CODE XREF: sub_0_2C8F+4F[†]j

ld ld call ld dec

jp ld

ld

ld

loc_0_2CE6:

2CDE C2 E6 2C 2CE1 3E 01 2CE3 32 86 63

2CE7 FE 04 2CE9 D2 F6 2C

2CE6 2CE6 2CE6 7E de, #0x501 queue_fg_vector_fn

hl, #unk_0_62B1 (hl)

NZ, loc_0_2CE6 a, #1 (unk_0_6386), a

NC, loc_0_2CF6

a, (hl)

```
2CEC 21 A8 69
                                                                                     hl, #soft_sprite_ram+0xA8
                                                                     ld
                                                                                     a, a
a, a
e, a
d, #0
hl, de
2CEF 87
2CF0 87
2CF1 5F
2CF2 16 00
                                                                     add
                                                                     add
ld
ld
 2CF2 10
2CF4 19
2CF5 72
2CF6
2CF6
                                                                     add
                                                                                     (hl), d
                                                                     ld
2CF6
2CF6 DD 36 07 15
2CFA DD 36 08 08
2CFE DD 36 15 00
2D02 3A 82 63
2D05 07
2D06 D2 15 2D
2D09 DD 36 07 19
2D00 DD 36 08 0C
2D11 DD 36 15 01
2D15
2D15
2D15
2D15 21 AF 62
2D15
                                                                                                                                                                        ; CODE XREF: sub_0_2C8F+5A<sup>†</sup> j ; sideways barrel sprite tile
                                   loc_0_2CF6:
                                                                                     7(ix), #0x15
8(ix), #0xB
0x15(ix), #0
a, (unk_0_6382)
                                                                     ld
                                                                     ld
ld
                                                                     ld
                                                                     rlca
                                                                     jp
ld
                                                                                     NC, loc_0_2D15
                                                                                     7(ix), #0x19
8(ix), #0xC
0x15(ix), #1
                                                                                                                                                                        ; sideways blue barrel sprite tile
; set blue palette for barrel
                                                                     ld
                                                                     ld
                                                                                                                                                                        ; CODE XREF: sub_0_2C8F+8<sup>†</sup>j; sub_0_2C8F+77<sup>†</sup>j
                                  loc_0_2D15:
2D15 21
2D15 2D18 35
2D19 C0
                                                                    ld
dec
                                                                                     hl, #byte_0_62AF (hl)
                                                                     ret
2D1A 36 18
2D1C 3A 8F 63
2D1F A7
                                                                                     (hl), #0x18
                                                                     ld
                                                                     ld
and
                                                                                     a, (unk_0_638F)
                                                                                     a
Z, loc_0_2D51
2D1F A7
2D20 CA 51 2D
2D23 4F
2D24 21 32 39
2D27 3A 82 63
2D2A 0F
                                                                     jp
ld
                                                                                     c, a
hl, #dk_throw_barrel_spr
a, (unk_0_6382)
                                                                     ld
ld
2D2A OF
2D2B DA 2F 2D
2D2E OD
2D2F
2D2F
                                                                     rrca
                                                                                     C, loc_0_2D2F
                                                                                                                                                                       ; CODE XREF: sub_0_2C8F+9C j
loc 0 2D2F:
                                                                                     a, c
a, a
a, a
c, a
a, a
                                                                     1d
                                                                     add
add
                                                                     add
                                                                     ld
add
add
                                                                                     a, a
a, c
e, a
d, #0
                                                                     add
                                                                     ld
ld
2D38 16 00

2D3A 19

2D3B CD 4E 00

2D3E 21 8F 63

2D41 35

2D42 C2 51 2D

2D45 3E 01

2D47 32 AF 62

2D43 3A 82 63

2D40 0F
                                                                     add
                                                                                     hl, de
                                                                                     n1, de
copy_sprites_2_11_data
h1, #unk_0_638F
(h1)
NZ, loc_0_2D51
a, #1
                                                                     call
ld
dec
                                                                     jp
ld
ld
                                                                                     a, #1
(byte_0_62AF), a
a, (unk_0_6382)
                                                                     ld
                                                                    rrca
jp
 2D4D 0F
2D4D OF
2D4E DA 83 2D
2D51
2D51
                                                                                     C, loc_0_2D83
                                                                                                                                                                        ; CODE XREF: sub_0_2C8F+91 j
                                  loc_0_2D51:
2D51 2A A8 62
2D51
2D54
2D54
                                                                                                                                                                        ; sub_0_2C8F+B31j
                                                                    ld
                                                                                     hl, (unk_0_62A8)
                                  loc 0 2D54:
                                                                                                                                                                       ; CODE XREF: sub 0 2C8F+FA-j
 2D54 7E
                                                                     ld
                                                                                     a, (hl)
2D54 7E
2D55 DD 2A AA 62
2D59 ED 5B AC 62
2D5D FE 7F
2D5F CA 8C 2D
2D62 4F
2D63 E6 7F
2D65 12
2D66 DD 7E 07
2D69 CB 79
2D68 CA 70 2D
2D68 EE 03
                                                                     ld
ld
                                                                                     ix, (unk_0_62AA)
de, (unk_0_62AC)
                                                                     cp
jp
ld
                                                                                     #0x7F ;
                                                                                     Z, loc_0_2D8C
                                                                                      c, a
#0x7F ; ' '
                                                                     and
ld
                                                                                     (de), a
a, 7(ix)
7, c
Z, loc_0_2D70
                                                                                                                                                                       ; sprite data X coord
; sprite tile #
                                                                     ld
bit
                                                                     jр
2D6E EE 03
2D70
2D70
2D70 13
                                                                     xor
                                  loc_0_2D70:
                                                                                                                                                                        ; CODE XREF: sub_0_2C8F+DC j
                                                                                     de
2D71 12
2D72 DD 77 07
2D75 DD 7E 08
2D78 13
                                                                                     (de), a
7(ix), a
a, 8(ix)
de
                                                                                                                                                                       ; sprite tile # (barrel)
; sprite tile #
                                                                     1d
                                                                     ld
ld
2D78 13
2D79 12
2D7A 23
2D7B 7E
                                                                     inc
                                                                     ld
inc
ld
                                                                                      (de), a
                                                                                     hl
a, (hl)
de
2D76 /E
2D7C 13
2D7D 12
2D7E 23
2D7F 22 A8 62
2D82 C9
                                                                     inc
                                                                     ld
inc
                                                                                     (de), a
                                                                                     (unk_0_62A8), hl
                                                                     ld
 2D83
2D83
2D83
                                   loc_0_2D83:
                                                                                                                                                                       ; CODE XREF: sub_0_2C8F+BF j
2D83 21 CC 39
2D86 22 A8 62
2D89 C3 54 2D
2D8C
                                                                                     hl, #barrel_falling_data
(unk_0_62A8), hl
loc_0_2D54
                                                                     1d
                                                                     ld
                                                                     jр
2D8C
2D8C
2D8C
2D8C 21 C3 39
                                   loc_0_2D8C:
                                                                                                                                                                        ; CODE XREF: sub_0_2C8F+D0 i
                                                                     ld
                                                                                     hl, #barell_rolling_data
2D8F 22 A8 62
2D92 DD 36 01 01
2D96 3A 82 63
2D99 0F
                                                                                      (unk_0_62A8), hl
1(ix), #1
                                                                     ld
                                                                                     1(ix), #1
a, (unk_0_6382)
                                                                     ld
ld
                                                                     rrca
2D99 OF
2D9A DA A5 2D
2D9D DD 36 01 00
2DA1 DD 36 02 02
                                                                                     C, loc_0_2DA5
1(ix), #0
2(ix), #2
                                                                     jp
ld
ld
 2DA5
                                   loc 0 2DA5:
                                                                                                                                                                     ; CODE XREF: sub 0 2C8F+10Bfi
                                                                                     0(ix), #1
0xF(ix), #1
 2DA5 DD 36 00 01
2DA9 DD 36 0F 01
2DAD AF
                                                                     ld
ld
2DAD AF

2DAE DD 77 10

2DB1 DD 77 11

2DB4 DD 77 12

2DB7 DD 77 13

2DBA DD 77 14
                                                                     xor
                                                                                     \begin{array}{c} a \\ 0 x 10 (ix), & a \end{array}
                                                                     ld
ld
ld
                                                                                     0x10(ix), a
0x11(ix), a
0x12(ix), a
                                                                     1d
                                                                                     0x13(ix). a
                                                                                     0x14(ix), a
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
                                                                              (barrel_deployment), a (unk_0_6392), a
 2DBD 32 93 63
2DC0 32 92 63
2DC3 1A
                                                               ld
                                                               ld
                                                                              a, (de)
3(ix), a
de
                                                               ld
ld
inc
2DC3 1A 2DC4 DD 77 03 2DC7 13 2DC8 13 2DC9 13 2DCA 1A 2DCB DD 77 05 2DCE 21 5C 38 2DD1 CD 4E 00 69 2DD7 0E FC 2DD9 FF
                                                               inc
                                                                              de
                                                                              de
                                                                            a, (de)
5(ix), a
hl, #dk_normal_spr
copy_sprites_2_ll_data
hl, #soft_sprite_ram+0xB
c, #0xFC; '3'
                                                               ld
ld
                                                               ld
                                                               call
ld
ld
                                                                                                                                                          ; sprite #2, x coord
2DD9 FF
2DDA C9
2DDA
                                                                                                                                                          ; subtract 4 from x coord for 10 sprites
                                                               rst
                                 ; End of function sub_0_2C8F
2DDA 2DDB 2DDB 2DDB 2DDB 2DDB 3E 0A 2DDD 77 2DDF 3A 80 63 2DE2 3C 2DE3 47 2DE4 1F 2DE5 47 2DE6 3A 27 62 2DE9 FE 02 2DEB 20 01 2DED 04 2DEE 2DEE 2DEE 2DEE 3E FE
 2DDA
                                                             SUBROUTINE
                                 sub_0_2DDB:
                                                                                                                                                          ; CODE XREF: 0000:1995 p
                                                                              a, #0xA
0x30
                                                                                                                                                          ; return if level bit not set ; return if mario not allive
                                                               rst
                                                               rst
                                                                              0x10
                                                               ld
inc
                                                                                   (unk_0_6380)
                                                               and
                                                                              а
                                                               rra
                                                                             b, a
a, (level_type)
                                                               ld
ld
                                                               ср
                                                                              NZ, loc_0_2DEE
ZDEE
ZDEE
ZDEE 3E FE
ZDF0 37
ZDF1
ZDF1
ZDF1 1F
ZDF2 A7
ZDF3 10 FC
ZDF3 10 FC
ZDF5 47
ZDF6 3A 1A 60
ZDF9 A0
ZDF9 A0
ZDF9 A0
ZDF9 A0
ZDF9 A0
ZDF9 A0
ZDF0 32 A0 63
ZE00 32 9A 63
ZE003 C9
ZE03
ZE03
ZE04
ZE04
                                                                                                                                                         ; CODE XREF: sub 0 2DDB+101i
                                 loc 0 2DEE:
                                                                              a, #0xFE ; '
                                                               1d
                                                                                                                                                         ; CODE XREF: sub 0 2DDB+18-i
                                loc 0 2DF1:
                                                                              a
loc_0_2DF1
                                                               djnz
                                                                              b, a
a, (gen_purpose_timer)
b
                                                               1d
                                                               ld
and
                                                               ret
                                                                              NZ
                                                                              a, #1
(unk_0_63A0), a
(unk_0_639A), a
                                                               14
                                                               ld
ld
                                                               ret
                                 ; End of function sub_0_2DDB
2E04
2E04
2E04
2E04
                                                            SUBROUTINE
; CODE XREF: 0000:198fp
                                 sub_0_2E04:
                                                                              a, #4
0x30
0x10
                                                               1d
                                                               rst
                                                                                                                                                          ; return if level bit not set
; return if mario not alive
                                                                              ix, #unk_0_6500
iy, #soft_sprite_ram+0x80
b, #0xA
                                                               ld
                                                               ld
                                 loc 0 2E12:
                                                                                                                                                          ; CODE XREF: sub 0 2E04+7D-j
                                                               14
                                                                              a, 0(ix)
                                                                                                                                                          ; any active springs?
                                                               rrca
                                                                              NC, loc_0_2EA7
                                                                                                                                                          ; no, skip
                                                               jp
ld
                                                                              a, (gen_purpose_timer)
#0xF
                                                               and
                                                                             NZ, loc_0_2E29
a, 1(iy)
#7
                                                               jp
ld
                                                                                                                                                         ; animate spring sprites
                                                               xor
                                                               ld
                                                                              1(iy), a
                                loc 0 2E29:
                                                                                                                                                         ; CODE XREF: sub 0 2E04+1A1i
2E29 DD 7E 0D 2E20 FE 04 2E2E CA 84 2E 2E31 DD 34 03 2E34 DD 34 03 2E37 DD 6E 0E 2E3A DD 66 0F 2E3A DT 7E
                                                                              a, 0xD(ix)
#4
Z, loc_0_2E84
3(ix)
                                                               1d
                                                               ср
                                                               jp
inc
                                                                              3(ix)
1, 0xE(ix)
h, 0xF(ix)
                                                               inc
                                                               ld
ld
2E3A DD 66 0F

2E3D 7E

2E3E 4F

2E3F FE 7F

2E41 CA 9C 2E

2E44 23
                                                               ld
                                                                              a, (hl)
                                                               ld
cp
                                                                              c, a
#0x7F ; '
                                                                             Z, loc_0_2E9C
                                                               jp
inc
 2E45 DD 86 05
2E48 DD 77 05
2E4B
                                                                                   5(ix)
                                                               add
                                                                              a, 5(ix)
5(ix), a
                                                               ld
2E4B
2E4B DD 75 0E
2E4E DD 74 0F
2E51 DD 7E 03
                                loc_0_2E4B:
                                                                                                                                                         ; CODE XREF: sub 0 2E04+A0-j
                                                                              0xE(ix), 1
0xF(ix), h
a, 3(ix)
                                                               14
                                                               ld
ld
2E51 DD 7E 03
2E54 FE B7
2E56 DA 6C 2E
2E59 79
2E5A FE 7F
2E5C C2 6C 2E
2E5F DD 36 0D 04
2E63 AF
2E64 32 83 60
2E67 3E 03
2E69 32 84 60
2E6C
2E6C
2E6C DD 7E 03
                                                               cp
jp
ld
                                                                              #0xB7
                                                                                   loc_0_2E6C
                                                                              #0x7F;''
                                                               cp
jp
ld
                                                                              NZ, loc_0_2E6C
0xD(ix), #4
                                                               xor
                                                                                                                                                          ; stop timer
```

(digital_snd_tmr_coin_spring), a

; CODE XREF: sub 0 2E04+521i

; sub_0_2E04+581j ...

; sub_0_2E04+CD|j

; x corrd to sprite data

; y coord to sprite data ; CODE XREF: sub_0_2E04+A7|j

a, #3 (digital_snd_tmr_kong_fall), a

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

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

ld

ld

14

loc 0 2E6C:

loc 0 2E78:

2E6C DD 7E 03 2E6C 2E6F FD 77 00

2E72 DD 7E 05 2E75 FD 77 03 2E78

2E78 11 10 00

```
de, #0x10
 2E78
                                                               ld
                                                                                                                                                          ; 16 bytes/sprite
2E7B DD 19
2E7D 1E 04
2E7F FD 19
2E81 10 8F
                                                                              ix, de
e, #4
iy, de
loc_0_2E12
                                                               add
                                                                                                                                                          ; next spring data
                                                               ld
add
djnz
                                                                                                                                                          ; next sprite data
2E83 C9
2E84
2E84
2E84
                                                               ret
                                loc_0_2E84:
                                                                                                                                                          ; CODE XREF: sub_0_2E04+2A j
                                                                              a, #3
a, 5(ix)
5(ix), a
#0xF8; '''
 2E84 3E 03
                                                               ld
 2E86 DD 86 05
2E89 DD 77 05
2E8C FE F8
                                                               add
1d
                                                               ср
2E8E DA 6C 2E
2E91 DD 36 03 00
2E95 DD 36 00 00
2E99 C3 6C 2E
                                                               jp
ld
ld
                                                                              C, loc_0_2E6C
3(ix), #0
                                                                               0(ix)
                                                                              loc 0 2E6C
jр
                                loc_0_2E9C:
                                                                                                                                                          ; CODE XREF: sub_0_2E04+3D<sup>†</sup> j
                                                                              hl, #bouncing_spring_data
                                                               ld
                                                               ld
                                                                                                                                                          ; tmr=3
                                                                              a, #3
(digital_snd_tmr_coin_spring), a
loc_0_2E4B
                                                                ld
                                                               qŗ
                                                                                                                                                          ; CODE XREF: sub_0_2E04+12 j
                                loc_0_2EA7:
                                                               ld
                                                                             a, (unk_0_6396)
                                                               rrca
2EAB OF
2EAB D2 78 2E
2EAE AF
2EAF 32 96 63
2EB2 DD 36 05 50
2EBA CD 57 00
2EBA CD 57 00
2EBB E6 0F
                                                               jp
xor
ld
                                                                              NC, loc_0_2E78
                                                                               (unk_0_6396), a
                                                               ld
ld
                                                                              5(ix), #0x50; 'P'
0xD(ix), #1
rand
                                                               call
                                                               and
                                                                               #0xF
2EBD E6 0F
2EBF C6 F8
2EC1 DD 77 03
2EC4 DD 36 00 01
2EC8 21 AA 39
2ECB DD 75 0E
2ECE DD 74 0F
2ED1 C3 78 2E
                                                                              a, #0xF8; '°'
3(ix), a
0(ix), #1
                                                               add
                                                               ld
ld
                                                                              hl, #bouncing_spring_data
0xE(ix), 1
0xF(ix), h
                                                               ld
                                                               ld
ld
                                                                                                                                                          ; end of spring routine
                                                                               loc 0 2E78
                                 jp loc_
; End of function sub_0_2E04
 2ED1
2ED1
2ED4
2ED4
2ED4
2ED4
2ED4
2ED4
2ED4 3E 0B
2ED6 F7
2ED7 D7
2ED8 11 18
                                ; SUBROUTINE
                                sub_0_2ED4:
                                                                                                                                                          ; CODE XREF: 0000:1998 p
                                                                              a, #0xB
0x30
0x10
                                                               ld
                                                                                                                                                          ; return if level bit not set
; return if mario not alive
; hammers in sprite ram
                                                               rst
2ED7 D7
2ED8 11 18 6A
2EDB DD 21 80 66
2EDF DD 7E 01
2EE2 0F
2EE3 DA ED 2E
                                                                              de, #soft_sprite_ram+0x118
                                                               ld
                                                                              ix, #unk_0_6680
a, 1(ix)
                                                               ld
                                                                                                                                                          ; hammer character data
                                                               ld
                                                               rrca
                                                                              C, loc_0_2EED
                                                               jp
ld
2EE6 11 1C 6A
2EE9 DD 21 90 66
2EED
                                                                              de, #soft_sprite_ram+0x11C
ix, #unk_0_6690
                                loc 0 2EED:
                                                                                                                                                         ; CODE XREF: sub 0 2ED4+F1 j
 2EED
 2EED DD 36 0E 00
                                                                             0xE(ix), #0
0xF(ix), #0xF0; '-'
a, (unk_0_6217)
                                                               ld
2EED DD 36 0E 00
2EF1 DD 36 0F F0
2EF5 3A 17 62
2EF8 0F 2EFF D2 97 2F
2EFC AF 2EFD 32 18 62
2F00 21 89 60
2F03 36 04
2F05 DD 36 09 06
2F09 DD 36 00 03
                                                               ld
ld
                                                               rrca
                                                               jp
xor
ld
                                                                              NC, loc_0_2F97
                                                                              a
(unk_0_6218), a
                                                                             (unr_u_b218), a
hl, #bg_music
(hl), #4
9(ix), #6
0xA(ix), #3
b, #0x1E
a, (mario_flipy_sprite_tile)
                                                               ld
                                                               ld
ld
ld
2F0D 06 1E
2F0F 3A 07 62
2F12 CB 27
2F14 D2 1B 2F
                                                               ld
                                                               ld
sla
                                                                              a
NC, loc_0_2F1B
                                                               jp
or
set
#0x80 ; 'Ç'
                                                                                                                                                         ; CODE XREF: sub 0 2ED4+401i
                                loc 0 2F1B:
                                                               or
ld
ld
                                                                             c, a
a, (unk_0_6394)
3, a
Z, loc_0_2F43
0, b
                                                               bit
                                                               jp
set
                                                                              0, C
9(ix), #5
0xA(ix), #6
0xF(ix), #0
0xE(ix), #0xF0; '-'
                                                               set
ld
                                                               ld
ld
                                                               ld
2F3A CB 79
2F3C CA 43 2F
2F3F DD 36 0E 10
2F43
                                                               bit
                                                                              Z, loc_0_2F43
0xE(ix), #0x10
2F43
2F43 79
2F43
                                                                                                                                                          ; CODE XREF: sub_0_2ED4+4F^j; sub_0_2ED4+68^j;
                                loc_0_2F43:
                                                               ld
ld
                                                                              (soft_sprite_ram+0x4D), a
                                                               ld
ld
inc
                                                                             c, #7
hl, #unk_0_6394
(hl)
NZ, loc_0_2FB7
hl, #unk_0_6395
(hl)
                                                               jp
ld
inc
ld
                                                                             a, (hl)
#2
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 62

2F67 FD 44
                                                               cp
jp
                                                                              NZ, loc_0_2FBE
                                                               xor
                                                                             a
  (unk_0_6395), a
  (unk_0_6217), a
1(ix), a
a, (mario_y)
                                                               ld
                                                               ld
ld
ld
2F67 ED 44
2F69 DD 77 0E
                                                                              0xE(ix), a
```

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
2F6C 3A 07 62
                                                                               (mario_flipy_sprite_tile)
                                                           ld
2F6C 3A 07 62

2F6F 32 4D 69

2F72 DD 36 00 00

2F76 3A 89 63

2F70 2

2F7C

2F7C EB

2F7C EB
                                                           ld
                                                                          (soft_sprite_ram+0x4D),
                                                           ld
ld
ld
                                                                         0(ix), #0
a, (unk_0_6389)
(bg_music), a
                              loc_0_2F7C:
                                                                                                                                                 ; CODE XREF: sub_0_2ED4+E0|j
; sub_0_2ED4+E7|j ...
                                                                          de, hl
2F7C
2F7D 3A 03 62
2F80 DD 86 0E
2F83 77
2F84 DD 77 03
                                                                         a, (mario_y)
a, 0xE(ix)
(h1), a
3(ix), a
                                                                                                                                                 ; calc hammer X
                                                           ld
                                                           add
ld
ld
                                                                         hl
(hl), b
2F87 23
2F88 70
2F89 23
2F8A 71
                                                           ld
                                                           inc
ld
                                                                          hl (hl), c
2F8B 23
2F8C 3A 05 62
2F8F DD 86 0F
2F92 77
                                                           inc
ld
add
                                                                          hl
                                                                          a, (mario_x)
a, 0xF(ix)
                                                                                                                                                 ; calc hammer Y
2F92 77
2F93 DD 77 05
2F96 C9
2F97
                                                                          (hl), a
                                                           1d
                                                           ld
                                                                          5(ix), a
2F97
2F97
2F97
2F97 3A 18 62
2F9A 0F
                               loc_0_2F97:
                                                                                                                                                  ; CODE XREF: sub_0_2ED4+25 j
                                                           ld
                                                                         a, (unk_0_6218)
rrca
ret
                                                                         NC
9(ix), #6
0xA(ix), #3
a, (mario_flipy_sprite_tile)
                                                           ld
ld
ld
                                                           rlca
ld
                                                                          a, #0x3C; '<'
                                                           rra
ld
                                                                         b, a
c, #7
a, (bg_music)
(unk_0_6389), a
loc_0_2F7C
                                                                                                                                                 ; hammer tile #
2FAB 47
2FAC 0E 07
2FAE 3A 89 60
2FB1 32 89 63
2FB4 C3 7C 2F
2FB7
2FB7
2FB7
2FB7
2FB8 A7
2FBB CA 7C 2F
2FBE
                                                           ld
ld
ld
                                                           jр
                               loc 0 2FB7:
                                                                                                                                                 ; CODE XREF: sub 0 2ED4+791j
                                                           ld
                                                                          a, (unk_0_6395)
                                                           and
jp
                                                                         a
Z, loc_0_2F7C
2FBE
2FBE
                               loc 0 2FBE:
                                                                                                                                                 ; CODE XREF: sub 0 2ED4+831i
2FBE 2FBE 3A 1A 60 2FC1 CB 5F 2FC3 CA 7C 2F 2FC6 0E 01 2FC8 C3 7C 2F 2FC8 2FC8
                                                           ld
bit
                                                                          a, (gen_purpose_timer)
                                                                         3, a
Z, loc_0_2F7C
                                                           jp
ld
                                                           jp
                                                                          loc_0_2F7C
                               ; End of function sub_0_2ED4
2FC8
2FCB
2FCB
2FCB
                                                          S U B R O U T I N E
2FCB
2FCB
2FCB
2FCB 3E 0E
2FCD F7
2FCE 21 B4 62
2FD1 35
2FD2 C0
2FD3 3E 03
2FD5 32 B9 62
2FD8 32 96 63
2FDB 11 01 05
2FDE CD 9F 30
                               sub_0_2FCB:
                                                                                                                                                 ; CODE XREF: 0000:19BF<sup>†</sup>p
                                                                          a, #0xE
0x30
                                                           ld
                                                                         0x30
hl, #unk_0_62B4
(hl)
NZ
a, #3
(unk_0_62B9), a
(unk_0_6396), a
de, #0x501
queue_fg_vector_fn
a, (unk_0_62B3)
(hl), a
hl, #unk_0_62B1
(hl)
NZ
                                                                                                                                                 ; return if level bit not set
                                                           rst
ld
                                                           dec
ret
                                                           ld
                                                           ld
ld
ld
                                                                                                                                                 ; update_bonus_timer
2FDE CD 9F 30
2FE1 3A B3 62
2FE4 77
2FE5 21 B1 62
                                                           call
ld
ld
                                                           ld
2FE8 35
2FE9 C0
2FEA 3E 01
2FEC 32 86 63
                                                           dec
                                                           ret
ld
                                                                          a, #1
(unk_0_6386), a
                                                           ld
ret
; End of function sub_0_2FCB
                                      SUBROUTINE
                              get_tilemap_addr_from_coords:
                                                                                                                                                  ; CODE XREF: draw_level_background+10 p
                                                                                                                                                  i draw_level_background+3D↑p ...
Y pos in bits [7:3]
                                                           rrca
                                                           rrca
                                                           rrca
and
ld
                                                                                                                                                    shift to [4:0]
store as LSB of screen address
X pos in bits [7:3]
mirror
                                                                          #0x1F
                                                                         a, h
                                                           1d
                                                           cpl
                                                                                    ; (0)
                                                                          \#0xF8
                                                           and
ld
                                                                          e, a
2FFC AF
2FFD 67
2FFE CB 13
3000 17
                                                           xor
                                                           ld
rl
                                                                          е
ZFFE CB 13
3000 17
3001 CB 13
3003 17
3004 C6 74
3006 57
3007 19
3008 C9
                                                           rla
                                                           rl
                                                                                                                                                  ; A=Xpos bits [7:6], E=[5:3]
; add start of VRAM
                                                                         a, #0x74 ; 't'
d, a
                                                           add
                                                           ld
                                                                                                                                                     store
```

add ret

1d

rrca

sub_0_3009:

3009 3009 3009 57

300A OF

hl, de

SUBROUTINE

d, a

; End of function get_tilemap_addr_from_coords

; HL = screen address

; CODE XREF: 0000:18DF\p; sub_0_1AC3+1DB\p ...

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```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
300B DA 22 30
                                                                       C, loc_0_3022
                                                         jp
ld
300B DA 22 30
300E 0E 93
3010 0F
3011 0F
3012 D2 17 30
3015 0E 6C
3017
3017 07
                                                                       c, #0x93; 'ô
                                                         rrca
                                                                       NC, loc_0_3017
                                                         jp
ld
                                                                       c, #0x6C ; '1
                             loc_0_3017:
                                                                                                                                            ; CODE XREF: sub_0_3009+91j
                                                         rlca
 3018 DA 31 30
                                                         jp
ld
and
ld
                                                                       C, loc_0_3031
301B 79
301C E6 F0
301E 4F
                                                                       #0xF0 ; '-'
301F C3 31 30
3022
3022
3022
                                                                       loc_0_3031
                                                         jp
                                                                                                                                            ; CODE XREF: sub_0_3009+21j
                             loc 0 3022:
3022 0E B4
3024 0F
3025 0F
                                                         1d
                                                                       c, #0xB4 ; '-'
                                                         rrca
                                                         rrca
3026 D2 2B 30
3029 0E 1E
302B
302B
                                                         jp
ld
                                                                       NC. loc 0 302B
                                                                       c, #0x1E
                             loc 0 302B:
                                                                                                                                            ; CODE XREF: sub 0 3009+1D|j
302B CB 50
                                                         bit
                                                                       2. b
302B CB 50
302D CA 31 30
3030 05
3031
3031
3031 79
3031
3032 0F
                                                                       Z, loc_0_3031
b
                                                                                                                                            ; CODE XREF: sub_0_3009+F<sup>†</sup>j; sub_0_3009+16<sup>†</sup>j ...
                             loc_0_3031:
                                                         ld
                                                                       a, c
                                                         rrca
3033 OF
3034 4F
3035 E6 03
3037 B8
                                                         rrca
ld
and
3037 B8
3038 C2 31 30
303B 79
303C OF
303D OF
303D OF
3040 FE 03
3042 C0
3043 CB 92
3045 15
3046 C0
3047 3E 04
3049 C9
3049 C9
                                                         ср
                                                                       NZ, loc_0_3031
                                                         rrca
                                                         rrca
                                                         and
cp
                                                                       #3
#3
                                                         ret
                                                                       NZ
                                                                       2, d
d
NZ
                                                         res
                                                         dec
                                                         ld
                                                                       a, #4
                                                         ret
3049
3049
                              ; End of function sub_0_3009
 304A
304A
304A
304A
                                      SUBROUTINE
304A
304A 11 E0 FF
304A
304D 3A 8E 63
                             wipe_ladder_as_kong_climbs:
                                                                                                                                               CODE XREF: display_1UP+9D↑p
                                                                                                                                               0000:0B381p
                                                                                                                                               column offset
                                                                       a, (byte_0_638E)
                                                         ld
304D 3A 8E 63
3050 4F
3051 06 00
3053 21 00 76
3056 CD 64 30
3059 21 CO 75
305C CD 64 30
305F 21 8E 63
3062 35
                                                                       c, a
b, #0
hl, #VRAM_start+0x200
                                                         ld
                                                         ld
ld
                                                                      nr, **RAM_Staft**V200
copy_tile_from_next_column
hl, #VRAM_start+0x1C0
copy_tile_from_next_column
hl, #byte_0_638E
(hl)
                                                         call
ld
                                                         call
ld
305F 21
3062 35
3063 C9
3063
3064
3064
3064
3064
3064
3064
3065 7E
3066 19
                                                         dec
                                                         ret
                              ; End of function wipe_ladder_as_kong_climbs
                                                  SUBROUTINE
                                                                                                                                            ; CODE XREF: wipe_ladder_as_kong_climbs+C<sup>†</sup>p
; wipe_ladder_as_kong_climbs+12<sup>†</sup>p
                             copy_tile_from_next_column:
                                                                      hl, bc
a, (hl)
hl, de
(hl), a
                                                         add
                                                         ld
3066 19
3067 77
3068 C9
                                                         add
                                                         ld
                                                         ret
                              ; End of function copy_tile_from_next_column
 3068
3068
3069
3069
3069
3069 DF
3069
                                                                                                                                            ; DATA XREF: display_1UP+2D\u00f1o ; display_1UP+31\u00e1o ... ; wait for 8-bit countdown
                             wait_and_inc_sequence:
306A 2A CO 63
306D 34
                                                         ld
inc
                                                                       hl, (ptr_current_sequence)
(hl)
306E C9
306F
306F
                                                         ret
                                                       SUBROUTINE
306F
306F
306F
306F 21 AF 62
                                                                                                                                            ; CODE XREF: display_1UP+95↑p; 0000:1732↑p ...
                             animate_kong_climbing:
306F 3072 34 3073 7E 3074 E6 07
                                                                       hl, #byte_0_62AF
(hl)
a, (hl)
#7
                                                         ld
                                                         inc
3074 E6 07
3076 C0
3077 21 0B 69
3077 21 0B 69
3070 FF
3070 DE 81
3072 FF
3082 CD 96 30
3082 CD 96 30
3085 CD 96 30
3088 CD 97 30
3088 CD 57 00
3088 E6 80
3090 21 2D 69
3093 AE
3094 77
3095 C9
                                                         and
                                                         ret
ld
ld
                                                                       hl, #soft_sprite_ram+0xB
                                                                                                                                            ; sprite #2, x coord
                                                                            #0xFC;
                                                                       0x38
                                                         rst
                                                         ld
ld
                                                                       c, #0x81; 'ü'
hl, #soft_sprite_ram+9
                                                                                                                                            ; sprite #2, flipy & code
                                                         call
                                                                       flip_2_tiles
hl, #soft_sprite_ram+0x1D
flip_2_tiles
                                                                                                                                            ; sprite #7, flipy & code
                                                         call
                                                                                                                                           ; Pauline kicking legs
                                                                       rand
                                                                       #0x80 ; 'Ç'
                                                                       hl, #soft_sprite_ram+0x2D
                                                         and
```

; sprite #11, flipy & code (Pauline)

ld

ld

ret

; End of function animate_kong_climbing

3095 C9

3095

(hl), a

```
3096
3096
3096
3096
                          ; SUBROUTINE
                                                                                                                            ; CODE XREF: animate_kong_climbing+13\uparrowp ; animate_kong_climbing+19\uparrowp
                          flip_2_tiles:
3096
3096
3096 06 02
3098
3098
3098
3098 79
3099 AE
309A 77
309B 19
309C 10 FA
309E C9
                                                               b, #2
                                                   ld
                          loc 0 3098:
                                                                                                                            ; CODE XREF: flip 2 tiles+6-j
                                                               a, c
(hl)
(hl), a
                                                   ld
                                                   xor
ld
                                                   add
                                                               hl.
                                                                    de
                                                   djnz
                                                               loc_0_3098
                          ret; End of function flip_2_tiles
309E
309E
309F
309F
309F
309F
309F E5
                                                SUBROUTINE
                                                                                                                            ; CODE XREF: check_coin_inserted+3B\uparrowp ; 0000:01F7\uparrowp ...
                          queue_fg_vector_fn:
                                                  push
ld
ld
                                                               hl
309F
30A0 21 C0 60
30A3 3A B0 60
30A6 6F
30A7 CB 7E
30A9 CA BB 30
30AC 72
30AD 2C
                                                              hl, #fg_vector_fn_params
a, (fg_fn_queue_tail)
                                                              a, (fg_
l, a
7, (hl)
                                                                                                                            ; point to end of queue
; empty entry?
; no, exit
; vector number
                                                   ld
bit
                                                               Z, loc_0_30BB (hl), d
                                                   jp
ld
                                                   inc
30AD 2C
30AE 73
30AF 2C
30B0 7D
30B1 FE CO
30B3 D2 B8 30
30B6 3E CO
30B8
                                                               (hl), e
                                                  ld
inc
ld
                                                                                                                            ; msg number
                                                              a, 1
#0xC0; 'L'
NC, loc_0_30B8
a, #0xC0; 'L'
                                                                                                                            ; new tail
                                                   ср
                                                                                                                            ; wrap?
                                                                                                                            ; no, skip
                                                                                                                            ; CODE XREF: queue_fg_vector_fn+14↑j; store tail
30B8
30B8 32 B0 60
30BB
30BB
                          loc_0_30B8:
                                                  1d
                                                              (fg_fn_queue_tail), a
                          loc 0 30BB:
                                                                                                                            ; CODE XREF: queue fg vector fn+A1 j
30BB
30BB E1
30BC C9
30BC
30BC
30BD
30BD
30BD
                                                   pop
                                                              hl
                          ret
; End of function queue_fg_vector_fn
                                                 SUBROUTINE
30BD
30BD
30BD 21 50 69
30BD
                                                                                                                            ; CODE XREF: 0000:12A3<sup>p</sup>; 0000:1615<sup>p</sup>
                          sub_0_30BD:
                                                              hl, #soft_sprite_ram+0x50
                                                   ld
30BD
30C0 06 02
30C2 CD E4 30
30C5 2E 80
30C7 06 0A
                                                   ld
                                                               b. #2
                                                              sub_0_30E4
1, #0x80;
b, #0xA
                                                   call
ld
                                                   ld
30C7 06 0A

30C9 CD E4 30

30CC 2E B8

30CE 06 0B

30D0 CD E4 30

30D3 21 0C 6A

30D6 06 05

30D8 C3 E4 30
                                                  call
ld
ld
                                                               sub_0_30E4
1, #0xB8;
b, #0xB
                                                  call
ld
                                                               sub_0_30E4
                                                              hl, #soft_sprite_ram+0x10C
b. #5
                                                   ld
                                                              b, #5
sub_0_30E4
                                                   jр
30D8
                          ; End of function sub_0_30BD
SUBROUTINE
                                                                                                                            ; CODE XREF: 0000:12DF1p
                          sub 0 30DB:
                                                              hl, #soft_sprite_ram+0x4C
                                                   ld
                          ld (h1), #0
ld 1, #0x58; 'X'
ld b, #6
; End of function sub_0_30DB
SUBROUTINE
                                                                                                                            ; CODE XREF: sub_0_30BD+5\p
; sub_0_30BD+C\p ...
                          sub_0_30E4:
                                                  ld
                                                               a, 1
                                                                                                                            ; CODE XREF: sub_0_30E4+6|j
                          loc_0_30E5:
                                                               (hl), #0
a, #4
l, a
                                                   ld
                                                   add
                                                   ld
                                                   djnz
                                                               loc_0_30E5
                                                  ret
                          ; End of function sub_0_30E4
                                                  SUBROUTINE
sub_0_30ED:
                                                                                                                            ; CODE XREF: 0000:198C1p
                                                              sub_0_30FA
sub_0_313C
sub_0_31B1
                                                   call
                                                  call
call
                                                                                                                            ; spawn fireballs?
                                                                                                                               process fireball AI?
add fireballs to sprite display
                                                   call
                                                               sub 0 34F3
                                                   ret
                          ; End of function sub_0_30ED
30FA
30FA
30FA
30FA
                                                 SUBROUTINE
30FA
30FA 3A 80 63
30FD FE 06
30FF 38 02
                          sub_0_30FA:
                                                                                                                            ; CODE XREF: sub 0 30ED p
                                                   ld
                                                                   (unk_0_6380)
                                                   ср
                                                               C, loc_0_3103
                                                   jr
1d
3101
3103
       3E 05
```

```
3103
                                                                                                                                                                                                                                                                                            ; CODE XREF: sub_0_30FA+5^j
loc_0_3103:
                                                                                                                    rst
                                                                                                                                               0x28
                                                                                                                                                                                                                                                                                            ; qo!
                                                                                                                    .dw loc_0_3110
.dw loc_0_3110
.dw loc_0_311B
.dw loc_0_3126
.dw loc_0_3126
.dw loc_0_3131
                                                                                                                                                                                                                                                                                            ; Jump table
                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_30FA+A↑o; sub_0_30FA+C↑o
                                                            loc_0_3110:
ld
and
                                                                                                                                                           (gen_purpose_timer)
                                                                                                                                               #1
Z
                                                                                                                    cp
ret
                                                                                                                    inc
                                                                                                                                                sp
sp
                                                                                                                    ret
                                                            loc_0_311B:
                                                                                                                                                                                                                                                                                          ; DATA XREF: sub_0_30FA+E10
                                                                                                                    ld
                                                                                                                                                a, (gen_purpose_timer)
#7
                                                                                                                    and
                                                                                                                    cp
ret
                                                                                                                    inc
                                                                                                                                                sp
                                                                                                                    ret
                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_30FA+10\uparrowo ; sub_0_30FA+12\uparrowo
                                                            loc_0_3126:
                                                                                                                    ld
                                                                                                                                                         (gen_purpose_timer)
3129 E6 03
3129 F6 03
3129 F8 03
3122 F8
3122 33
3125 33
3127 33
3131
3131
3131
3131
3131
3131 3A 1A 60
3134 E6 07
3138 F8
3139 33
3138 C9
3138 G9
3130 G9
313
                                                                                                                    and
                                                                                                                    cp
ret
                                                                                                                    inc
                                                                                                                                                sp
                                                                                                                                                sp
                                                                                                                                                                                                                                                                                          ; DATA XREF: sub 0 30FA+141o
                                                            loc_0_3131:
                                                                                                                    ld
and
                                                                                                                                               a,
#7
#7
M
                                                                                                                                                          (gen_purpose_timer)
                                                                                                                    ср
                                                                                                                    ret
inc
                                                                                                                                                sp
                                                                                                                                                sp
                                                                                                                    ret
                                                            ; End of function sub_0_30FA
                                                                                                               SUBROUTINE
; CODE XREF: sub_0_30ED+31p
                                                            sub_0_313C:
                                                                                                                    ld
                                                                                                                                                ix, #unk_0_6400
                                                                                                                                                                                                                                                                                            ; fireball character data
                                                                                                                    xor
ld
                                                                                                                                                 a
(unk_0_63A1), a
                                                                                                                    ld
                                                                                                                                                      , #5
                                                                                                                                               de, #0x20 ; ' '
                                                                                                                    ld
                                                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_313C+30|j
                                                            loc_0_3149:
                                                                                                                                               a, 0(ix)
#0
                                                                                                                    ld
                                                                                                                    cp
jp
ld
                                                                                                                                               Z, loc_0_317C
a, (unk_0_63A1)
                                                                                                                    inc
ld
ld
ld
                                                                                                                                                 (unk_0_63A1), a
                                                                                                                                                a, #1
8(ix), a
                                                                                                                                                a, (unk_0_6217)
                                                                                                                    ld
                                                                                                                    cp
jp
ld
                                                                                                                                                NZ, loc_0_316A
                                                                                                                                               a, #U
8(ix), a
                                                                                                                    ld
                                                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_313C+26<sup>†</sup>j; sub_0_313C+45<sup>†</sup>j ...
                                                            loc_0_316A:
                                                                                                                    add
djnz
ld
ld
ld
316A DB 316E 21 AO 63 3171 36 00 3173 3A A1 63 3176 FE 00 3178 CO 3178 CO 3178 CO 3178 CO 3178 CO 3176 FE 05 3176 FE 05 3176 FE 05 3181 CA 6A 31 3184 3A 27 62 3187 FE 05 3188 CA 6A 31 3189 CC 95 31 318C 3A A1 63 3193 CO 3187 FE 05 3188 CA 6A 31 3189 CC 95 31 318C 3A A1 63 3193 B9 3194 CC 3187 FE 05 3198 FE 01 3190 DD 77 00 31A0 DD 77 18 31A3 AF 31A4 32 AO 63 31A3 AF 31A3 AF 31A4 32 AO 63 31A3 AF 31A4 32 AO 63 31A4 3C 31A7 3A AI 63 31A7 3A AI 63 31A7 3A AI 63 31A7 3A AI 63
                                                                                                                                                ix, de loc_0_3149
                                                                                                                                               hl, #unk_0_63A0 (hl), #0
                                                                                                                                                           (unk_0_63A1)
                                                                                                                    ret
inc
                                                                                                                                                NZ
                                                                                                                                                sp
                                                                                                                    ret
                                                            loc_0_317C:
                                                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_313C+12 j
                                                                                                                    ld
                                                                                                                                                a, (unk_0_63A1)
                                                                                                                    cp
jp
ld
cp
jp
ld
ld
                                                                                                                                               Z, loc_0_316A
a, (level_type)
#2
                                                                                                                                                                                                                                                                                            ; cement level?
                                                                                                                                               NZ, loc_0_3195
a, (unk_0_63A1)
                                                                                                                                                                                                                                                                                           ; no, continue
; cement level timers
                                                                                                                                               a, (unk_0_6380)
                                                                                                                    cp
ret
                                                                                                                                                                                                                                                                                          ; CODE XREF: sub_0_313C+4D<sup>†</sup>j; spawn a fireball
                                                            loc 0 3195:
                                                                                                                                               a, (unk_0_63A0)
#1
                                                                                                                    ld
                                                                                                                    ср
                                                                                                                                                NZ, loc_0_316A
                                                                                                                    jp
ld
ld
xor
                                                                                                                                                0(ix),
                                                                                                                                                0x18(ix), a
                                                                                                                                                 (unk_0_63A0)
                                                                                                                                               a, (unk_0_63A1)
                                                                                                                    1d
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
31AB 32 A1 63
                                                                        (unk_0_63A1), a
                                                          ld
31AE C3 6A 31
                              jp loc_
; End of function sub_0_313C
                                                                        loc 0 316A
 31AE
31AE
31B1
31B1
31B1
31B1
31B1
                                                        SUBROUTINE
                              sub_0_31B1:
                                                                                                                                              ; CODE XREF: sub_0_30ED+61p
31B1 CD DD 31
31B4 AF
31B5 32 A2 63
31B8 21 E0 63
                                                          call
                                                                        sub 0 31DD
                                                          xor
ld
                                                                         (unk_0_63A2)
                                                                        .__o_o3A2), a
hl, #unk_0_63E0
(unk_0_63C)
31BB 21 E0 63
31BB 22 C8 63
31BE 31BE 3
31BC 01 20 00
31C4 09 31C5 22 C8 63
31C8 7E 31C9 A7
31CA CA DO 31
31CD CD 02 32
31D0
                                                          ld
                                                                        (unk_0_63C8), hl
                                                          ld
                              loc_0_31BE:
                                                                                                                                             ; CODE XREF: sub_0_31B1+28 | j
                                                          ld
                                                                        hl. (unk 0 63C8)
                                                         ld
add
ld
                                                                       bc, #0x20; 'hl, bc (unk_0_63C8), hl
                                                          1d
                                                                        a, (hl)
                                                          and
                                                         jp
call
                                                                           , loc_0_31D0
                                                                       sub_0_3202
31D0
31D0 3A A2 63
31D3 3C
31D4 32 A2 63
31D7 FE 05
31D9 C2 BE 31
31DC C9
31DC
31DC
31DD
31DD
31DD
31DD
                              loc_0_31D0:
                                                                                                                                              ; CODE XREF: sub_0_31B1+19<sup>†</sup>j
                                                          ld
                                                                        a, (unk_0_63A2)
                                                          inc
                                                                        a
(unk_0_63A2), a
                                                          14
                                                          ср
                                                                        NZ, loc_0_31BE
                                                          jр
                                                          ret
                              ; End of function sub_0_31B1
                                                        SUBROUTINE
31DD
31DD
31DD
31DD
sub_0_31DD:
                                                                                                                                              ; CODE XREF: sub_0_31B1\frac{1}{p}
                                                                       a, (unk_0_6380)
#3
                                                          ld
                                                          cp
ret
                                                                        sub 0 31F6
                                                          call
                                                          cp
ret
ld
                                                                       NZ
hl, #unk_0_6439
                                                                       a, #2
(h1), a
h1, #unk_0_6479
a, #2
                                                          ld
ld
                                                          ld
ld
                                                                        a, #2
(h1), a
                                                          ld
                              ret; End of function sub_0_31DD
                                                 SUBROUTINE
31F6
31F6
31F6 3A 18 60
31F9 E6 03
31FB FE 01
31FD C0
31FE 3A 1A 60
3201 C9
                              sub_0_31F6:
                                                                                                                                              ; CODE XREF: sub_0_31DD+6 p
                                                         ld
and
                                                                             (random_no)
                                                          ср
                                                          ret
                                                                       NZ
                                                         ld
ret
                                                                        a,
                                                                             (gen_purpose_timer)
3201
3201
3201
3202
3202
                              ; End of function sub_0_31F6
32002

32002

32002

32002

32002 DD 2A C8 63

32006 DD 7E 18

32009 FE 01

3208 DA 7A 32

320E DD 7E 0D

3211 FE 04

3213 F2 30 32

3216 DD 7E 19

3219 FE 02

3218 CA 7E 32

321E CD 0F 33

3221 TA 18 60

3224 E6 03

3224 E6 03

3226 C2 33 32
                                     SUBROUTINE
                                                                                                                                              ; CODE XREF: sub_0_31B1+1C<sup>p</sup>
                              sub_0_3202:
                                                                        ix, (unk_0_63C8)
                                                          1d
                                                                            0x18(ix)
                                                         cp
jp
ld
                                                                       Z, loc_0_327A
a, 0xD(ix)
                                                          cp
jp
ld
                                                                       P, loc_0_3230
a, 0x19(ix)
                                                         cp
jp
call
ld
                                                                        #2
                                                                        Z, loc_0_327E
sub_0_330F
                                                                       a, (random_no)
                                                          and
3226 C2 33 32
3229
                                                                        NZ, loc_0_3233
3229
3229 DD 7E 0D
                             loc 0 3229:
                                                                                                                                             ; CODE XREF: sub 0 3202+7F-1
                                                         ld
                                                                        a, 0xD(ix)
322C A7
322D CA 57 32
3230
                                                          and
                                                                        Z, loc_0_3257
                                                          jр
3230
3230 CD 3D 33
3233
3233
                             loc_0_3230:
                                                                                                                                             ; CODE XREF: sub 0 3202+111 †
                                                          call
                                                                        sub_0_333D
3233 3
3233 D 7E 0D 3
3236 FE 04
3238 F2 91 32
3238 CD AD 33
323E CD 8C 29
3241 FE 01
3243 CA 97 32
3244 DD 7E 0E
3244 DA D 7E 0E
3244 DA 8C 32
3240 FE 10
3245 DA 8C 32
3257 B4 32
                              loc 0 3233:
                                                                       a, 0xD(ix)

#4

P, loc_0_3291

sub_0_33AD

sub_0_298C

#1

Z, loc_0_3297

ix, (unk_0_63C8)

a, 0xE(ix)

#0x10

C, loc_0_328C
                                                                                                                                              ; CODE XREF: sub 0 3202+241 i
                                                          ld
                                                          cp
jp
                                                          call
                                                          call
cp
```

jp ld ld cp jp cp jp

ld ср

loc_0_3257:

3257 3257 DD 7E 13

325C C2 B9 32 325F 3E 11

3257 DD 7E 3257 325A FE 00

loc_0_328C NC, loc_0_3284

a, 0x13(ix) #0

NZ, loc_0_32B9 a, #0x11

; CODE XREF: sub_0_3202+2B[†] j

; sub_0_3202+87|j ...

```
32D6
32D6
32D6
32D6
32D6
32D9 F2 00
32D9 F2 00
32DB 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
                                  sub_0_32D6:
                                                                                   a, 0x1C(ix)
                                                                                                                                                                     ; CODE XREF: sub_0_3202+7C\p
                                                                    ld
                                                                   cp
jp
ld
                                                                                   #U
NZ, loc_0_32FD
a, 0x1D(ix)
#1
                                                                   cp
jp
ld
ld
                                                                                   NZ, loc_0_330B
                                                                                   0x1D(ix), #0
a, (mario_x)
b, 0xF(ix)
b
                                                                    ld
                                                                    sub
32F1 DA 03 33
32F4 DD 36 1C FF
                                                                                   C, loc_0_3303
0x1C(ix), #0xFF
 32F8
                                  loc_0_32F8:
                                                                                                                                                                     ; CODE XREF: sub_0_32D6+2A-j
32F8 DD
32FC C9
         DD 36 0D 00
                                                                                   0xD(ix), #0
                                                                   ret
```

ср ret inc

ret ; End of function sub_0_33A1

33AC C9 33AC

sp sp

```
33AC
33AD
33AD
33AD
33AD
33AD
33AD
33AD
0D 7E 01
33B0 FE 01
33B2 CA D9 33
33B5 DD 7E 07
33B8 E6 7F
33B8 AD 77 07
33BA DD 75 07
33BA DD 75 07
33BA DD 75 07
                          ; SUBROUTINE SUBROUTINE
                                                                                                                          ; CODE XREF: sub 0 3202+39 p
                          sub_0_33AD:
                                                              a, 0xD(ix)
#1
Z, loc_0_33D9
                                                  ld
                                                  ср
                                                  jp
ld
                                                              a, 7(ix)
#0x7F; ''
7(ix), a
                                                                                                                          ; reset hflip
; sprite tile #
                                                  ld
                                                              0xE(ix)
                                                  dec
 33C0
33C0
33C0 CD 09 34
33C0
                          loc_0_33C0:
                                                                                                                          ; CODE XREF: 0000:33E4-j
                                                  call
                                                              sub_0_3409
                          ; End of function sub_0_33AD
SUBROUTINE
                          sub_0_33C3:
                                                                                                                          ; CODE XREF: sub_0_3202+A91p
                                                              a, (level_type)
#1
                                                  ld
                                                  cp
ret
ld
                                                             #1
NZ
h, 0xE(ix)
1, 0xF(ix)
b, 0xD(ix)
2333
                                                  ld
                                                  14
                                                  call
ld
ret
                                                              sub_0_2333
0xF(ix), 1
33D8
33D8
33D9
33D9
                          ; 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)
                                                  ld
                                                  or
ld
                                                  inc
                                                               loc_0_33C0
                                                  SUBROUTINE
                          sub_0_33E7:
                                                                                                                          ; CODE XREF: sub 0 3202+8F1p
                                                              sub_0_3409
a, 0xD(ix)
#8
                                                  call
ld
                                                  ср
                                                  jp
ld
and
jp
ld
                                                              NZ, loc 0 3405
                                                               a, 0x14(ix)
                                                              a
NZ, loc_0_3401
                                                              0x14(ix), #2
0xF(ix)
                                                  dec
                          loc_0_3401:
                                                                                                                          ; CODE XREF: sub_0_33E7+F<sup>†</sup>j
                                                              0x14(ix)
                                                  ret
                                                                                                                           ; CODE XREF: sub_0_33E7+8<sup>†</sup>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
340C A7
340D C2 28 34
3410 DD 36 15 02
3414 DD 34 07
3417 DD 7E 07
341A E6 0F
341C FE 0F
341E C0
341F DD 7E 07
3422 EE 02
3424 DD 77 07
3427 C9
3428
3428
3428
3428
3428 DD 35 15
3428 C9
                                                  and
                                                              a
NZ, loc_0_3428
0x15(ix), #2
7(ix)
a, 7(ix)
#0xF
                                                  jp
ld
                                                                                                                          ; inc fireball animation
                                                  inc
                                                  1d
                                                  and
cp
ret
ld
                                                              #0xF
NZ
                                                                                                                          ; last animation frame?
; no, return
                                                              a, 7(ix)
                                                  xor
ld
                                                                                                                          ; reset animation frame
                                                               7(ix), a
                                                  ret
                                                                                                                           ; CODE XREF: sub_0_3409+4<sup>†</sup> j
                          loc_0_3428:
dec
                                                              0x15(ix)
                          ret; End of function sub_0_3409
                                                SUBROUTINE
                          sub 0 342C:
                                                                                                                          ; CODE XREF: sub 0 32BD+111p
                                                              1, 0x1A(ix)
h, 0x1B(ix)
                                                  1d
                                                  ld
                                                              a
bc, #0
                                                  xor
                                                  ld
                                                  adc
jp
ld
                                                              hl, bc
NZ, loc_0_3442
                                                              hl, #fireball_bounce_data
3(ix), #0x26; '&'
                                                  ld
                                                                                                                          ; CODE XREF: sub_0_342C+C^j
                          loc_0_3442:
                                                              3(ix)
                                                  inc
                          loc_0_3445:
                                                                                                                          ; CODE XREF: sub_0_3478+2D|j
; sub_0_3478+3E|j
                                                              a, (hl)
#0xAA; '¬'
                                                  1d
 3446 FE AA
                                                  ср
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
3448 CA 56 34
344B DD 77 05
                                                                                   Z, loc_0_3456
5(ix), a
                                                                   jp
ld
344B DD 77 05
344E 23
344F DD 75 1A
3452 DD 74 1B
3455 C9
3456
3456 3
3456 AF
3457 DD 77 13
3450 DD 77 0D
3460 DD 77 0D
3460 DD 77 0S
3466 DD 77 0E
3469 DD 77 0E
3469 DD 77 0F
                                                                   inc
ld
ld
                                                                                   hl
                                                                                   0x1A(ix), 1
0x1B(ix), h
                                                                   ret
                                  loc_0_3456:
                                                                                                                                                                    ; CODE XREF: sub_0_342C+1C j
                                                                   xor
                                                                                   0x13(ix), a
0x18(ix), a
0xD(ix), a
                                                                   ld
ld
ld
                                                                                   0xD(1x), a

0xlC(ix), a

a, 3(ix)

0xE(ix), a

a, 5(ix)

0xF(ix), a

0xlA(ix), #0

0xlB(ix), #0
                                                                   ld
ld
ld
ld
3469 DD 7E 05
346C DD 77 05
346F DD 36 1A
3473 DD 36 1B
3477 C9
3477
3477
3477
3478
3478
3478
3478 DD 66 1B
347E AF
347E AF
347E DJ 60 00
3482 ED 4A
               77 OF
36 1A 00
36 1B 00
                                                                   ld
ld
ld
                                                                   ret
                                   ; End of function sub\_0\_342C
                                                                SUBROUTINE
                                  sub_0_3478:
                                                                                                                                                                     ; CODE XREF: sub 0 32BD+15 p
                                                                   14
                                                                                   1 0x1A(ix)
                                                                   ld
                                                                                   h, 0x1B(ix)
                                                                   xor
ld
                                                                                   a
bc, #0
347F 01 00 00
3482 ED 4A
3484 C2 9A 34
3487 21 AC 3A
348A 3A 03 62
348D CB 7F
348F CA A8 34
3492 DD 36 0D 01
3496 DD 36 03 7E
349A
349A DD 7E 0D
349A
349A DD 7E 0D
349A
349A FE 01
349F C2 B3 34
34A2 DD 34 03
                                                                                   NZ, loc_0_349A
hl, #cement_fireball_data
                                                                   ado
                                                                    jp
ld
                                                                   ld
                                                                                   a,
7,
                                                                                          (mario v)
                                                                   bit
                                                                                        a
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
                                                                   ld
                                                                                   a, 0xD(ix) #1
                                                                   cp
jp
                                                                                   NZ, loc_0_34B3
34A2 DD 34 03
34A5 C3 45 34
                                                                                    3(ix)
                                                                                   loc_0_3445
                                                                   jр
34A8
34A8
34A8
                                                                                                                                                                     ; CODE XREF: sub 0 3478+171 j
                                   loc 0 34A8:
34A8 DD 36 0D 02
34AC DD 36 03 80
34B0 C3 9A 34
                                                                                   0xD(ix), #2
3(ix), #0x80 ; 'C'
loc_0_349A
                                                                   ld
ld
                                                                   jр
34B3
34B3
34B3
34B3 DD 35 03
                                   loc_0_34B3:
                                                                                                                                                                     ; CODE XREF: sub_0_3478+27 j
                                                                   dec
34B3 DD 35 03
34B6 C3 45 34
34B6 34B9
34B9 34B9 34B9
34B9 34BC 8 34BE C8 34BE C8 7F 44
34C4 C2 ED 34
34C4 C2 ED 34
34CA 53 45 34 3A
                                                                                    3(ix)
                                   $\rm jp\ loc\_0\_3445 ; End of function sub\_0\_3478
                                                               SUBROUTINE
                                   sub_0_34B9:
                                                                                                                                                                     ; CODE XREF: sub 0 32BD+D1p
                                                                   14
                                                                                         (level_type)
                                                                   cp
ret
ld
                                                                                   a, (mario_y)
7, a
                                                                   bit
                                                                                   7, a
NZ, loc_0_34ED
                                                                   jp
ld
                                                                                   hl, #rivet_fireball_data
34C7 21 C4 3A
34CA 34CA 66 00 60
34CF E6 06
34D1 4F
34D2 09
34D3 7E
34D4 DD 77 0E
34DA 23
34DB 7E
34DD DD 77 05
                                   loc_0_34CA:
                                                                                                                                                                    ; CODE XREF: sub_0_34B9+37|j
                                                                   ld
                                                                                        (random_no+1)
                                                                   ld
                                                                                   a,
#6
                                                                   and
ld
add
                                                                                   c, a
hl, bc
a, (hl)
                                                                   ld
ld
ld
                                                                                   a, (h
3(ix)
                                                                                  3(ix), a
0xE(ix), a
hl
                                                                   inc
ld
34DA 23
34DB 7E
34DC DD 77 05
34DF DD 77 0F
34E2 AF
34E3 DD 77 0D
34E6 DD 77 18
34E9 DD 77 1C
34EC C9
                                                                                         (hl)
                                                                                   a, (hl)
5(ix), a
0xF(ix), a
                                                                   ld
ld
                                                                                   a
0xD(ix), a
0x18(ix), a
0x1C(ix), a
                                                                   xor
ld
                                                                   ld
ld
                                                                   ret
34ED
34ED
34ED
34ED
34ED 21 D4 3A
                                   loc_0_34ED:
                                                                                                                                                                     ; CODE XREF: sub_0_34B9+B|j
                                                                   ld
                                                                                   hl. #rivet fireball start points
34F0 C3 CA 34
34F0
34F0
                                   jp loc_
; End of function sub_0_34B9
                                                                                   loc_0_34CA
34F3
34F3
34F3
34F3
                                                                SUBROUTINE
34F3
34F3
34F3 21 00 64
34F6 11 D0 69
34F9 06 05
34FB
                                                                                                                                                                     ; CODE XREF: sub 0 30ED+91p
                                   sub 0 34F3:
                                                                   ld
ld
                                                                                   hl, #unk_0_6400
de, #soft_sprite_ram+0xD0
                                                                                                                                                                     ; fireball character data
; fireballs in sprite ram
; 5 fireballs (max)
                                                                                   b, #5
                                                                   ld
34FB
34FB 7E
34FC A7
                                   loc_0_34FB:
                                                                                                                                                                     ; CODE XREF: sub_0_34F3+28|j
                                                                   ld
                                                                                   a, (hl)
```

a Z, loc_0_351E

; fireball X coordinate

a, (hl)

and

jp inc inc

ld

34FD CA 1E 35 3500 2C 3501 2C

3502

3503 7E

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
   3504 12
 3504 12
3505 3E 04
3507 85
3508 6F
3508 7E
3508 7E
3508 12
3508 2C
3500 2C
3500 12
3500 7E
3500 12
3500 12
3510 2D
3511 2D
3511 2D
                                                                                                                                                                                                       (de), a
                                                                                                                                                                                                     a, #4
a, 1
1, a
                                                                                                                                                                ld
                                                                                                                                                                add
ld
inc
                                                                                                                                                                                                                    (hl)
                                                                                                                                                                                                                                                                                                                                                                                                     ; fireball sprite tile #
                                                                                                                                                                1d
                                                                                                                                                                ld
inc
inc
                                                                                                                                                                                                         (de), a
                                                                                                                                                                                                                    (h1)
                                                                                                                                                                                                                                                                                                                                                                                                     ; fireball palette
                                                                                                                                                                ld
                                                                                                                                                               ld
dec
dec
                                                                                                                                                                                                         (de), a
 3511 2D
3512 2D
3513 1C
3514 7E
3515 12
3516 13
3517
3517
3517 3E
3519 85
351A 6F
351B 10
                                                                                                                                                                dec
inc
                                                                                                                                                                                                    a, (hl)
(de), a
                                                                                                                                                                ld
                                                                                                                                                                                                                                                                                                                                                                                                     ; fireball Y coord
                                                                                                                                                                ld
                                                                                 loc_0_3517:
                                                                                                                                                                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_34F3+33|j
                                                                                                                                                                                                     a, #0x1B
a, 1
1, a
                        3E 1B
                                                                                                                                                                ld
                                                                                                                                                                add
ld
                         10 DE
                                                                                                                                                                                                      loc 0 34FB
351B 10 DE
351D C9
351E 351E
351E 351E 351E 351E 351E 3520 85
3520 85
3521 6F 3522 3E 04
                                                                                                                                                               djnz
                                                                                loc_0_351E:
                                                                                                                                                                                                                                                                                                                                                                                                     ; CODE XREF: sub 0 34F3+A j
                                                                                                                                                                                                     a, #5
a, 1
1, a
a, #4
                                                                                                                                                                14
                                                                                                                                                               add
ld
ld
  3524 83
3525 5F
3526 C3 17 35
                                                                                                                                                               add
ld
                                                                                                                                                                                                     a, e
e, a
                                                                                                                                                                                                       loc_0_3517
                                                                                                                                                                jр
                                                                                  ; End of function sub 0 34F3
   3526
  3526
3526
3529 00 00 00
                                                                                 bonus_points_tbl:.db 0, 0, 0
                                                                                                                                                                                                                                                                                                                                                                                                               DATA XREF: add_bonus_and_update_high_score+9<sup>†</sup>o
                                                                                                                                                                                                                                                                                                                                                                                                               0 pts
100 pts
200 pts
 3529
352C 00 01 00
352F 00 02 00
3532 00 03 00
3535 00 04 00
   3529
                                                                                                                                                                .db 0, 1, 0
.db 0, 2, 0
.db 0, 3, 0
.db 0, 4, 0
.db 0, 5, 0
.db 0, 6, 0
.db 0, 7, 0
.db 0, 9, 0
.db 0, 9, 0
.db 0, 0, 0
.db 0, 0, 0
 352C 00 01 00
352F 00 02 00
353B 00 04 00
353B 00 05 00
353B 00 07 00
353B 00 07 00
3541 00 08 00
3544 00 09 00
3544 00 10 00
3544 00 10 00
3540 01 00 00
3550 00 30 00
3550 00 30 00
3550 00 50 00
3550 00 50 00
3550 00 70 00
3550 00 70 00
3550 00 70 00
                                                                                                                                                                                                                                                                                                                                                                                                                 300 pts
                                                                                                                                                                                                                                                                                                                                                                                                                400 pts
500 pts
600 pts
                                                                                                                                                                                                                                                                                                                                                                                                              700 pts
800 pts
900 pts
0 pts
1000 pts
                                                                                                                                                                                0, 0, 0
0, 0x10, 0
0, 0x20, 0
0, 0x30, 0
0, 0x50, 0
0, 0x60, 0
0, 0x60, 0
0, 0x70, 0
0, 0x90, 0
                                                                                                                                                                 .db 0, 0x10,
.db 0, 0x20,
.db 0, 0x30,
.db 0, 0x40,
                                                                                                                                                                                                                                                                                                                                                                                                                2000 pts
3000 pts
4000 pts
                                                                                                                                                                                                                                                                                                                                                                                                               5000 pts
6000 pts
7000 pts
8000 pts
                                                                                                                                                                  .db
                                                                                                                                                                  .db
355F 00 80 00
3562 00 90 00
3565 94 77 high_score_tbl:
3567 01 23 24 10+
3567 01 00 00 07+
3567 60 50 00 10+
3585 F4 76
3587 96 77
3589 02 1E 14 10+
3589 10 00 00 06+
3589 01 00 00 10+
3587 96 76
3587 96 77
3588 02 1E 14 10+
3589 10 00 00 05+
3588 03 22 14 10+
3588 00 00 00 05+
3588 00 00 00 05+
3588 00 00 00 05+
3588 00 00 00 05+
3588 00 00 00 05+
3588 00 00 00 05+
3588 00 00 00 05+
3588 00 00 00 05+
3588 00 00 00 05+
3588 00 00 00 05+
3588 00 00 00 05+
3588 00 00 00 05+
3588 00 00 00 05+
3588 00 00 00 05+
3588 00 00 00 05+
3588 00 00 00 05+
3588 00 00 00 05+
                                                                                                                                                                  .db
                                                                                                                                                                   .db
                                                                                                                                                                                                                                                                                                                                                                                                                9000 pts
                                                                                                                                                               .db 0, 0x90, 0 ; 9000 pt ; DATRA XI db 1, 0x23, 0x24, 0x10, 0x10, 0, 10, 7, 6, 5, 0, 0x10 db 0x10, 0x1
                                                                                                                                                                                                                                                                                                                                                                                                           DATA XREF: read_dips_and_high_score_tbl+53\rd 0x10
                                                                                                                                                              .dw VRAM_start+0x2F6
.dw VRAM_start+0x398
.db 3, 0x22, 0x14, 0x10, 0x10, 0, 0, 5, 9, 5, 0, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x3F, 0, 0x50, 0x59, 0
.dw VRAM_start+0x2F8
.dw VRAM_start+0x39A
.db 4, 0x24, 0x18, 0x10, 0x10, 0, 5, 0, 5, 0, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x50, 0x50, 0
.dw VRAM_start+0x2FA
.dw VRAM_start+0x39C
.db 5, 0x24, 0x18, 0x10, 0x10, 0, 0, 4, 3, 0, 0, 0x10
35CD 10 00 00 05+
35CD 00 05 00 10+
35CD 00 05 00 10+
35EB FA 76
35EB 9C 77
35EF 05 24 18 10+
35EF 10 00 00 04+
35EF 03 00 00 10+
360D FC 76
360D FC 76
360F 3B 5C 4B 5C+letter_coords:
360F 5B 5C 6B 5C+
360F 9B 5C 8B 5C+
360F 9B 5C AB 5C+
360F BB 5C CB 5C+
360F BB 5C CB 5C+
360F 5B 6C 6B 6C+
360F 5B 6C 8B 6C+
360F 7B 6C 8B 6C+
                                                                                                                                                                  .db 5, 0x24, 0x18, 0x10, 0x10, 0, 0, 4, 3, 0, 0, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x3F, 0, 0, 0x43, 0
.dw VRAM_start+0x2FC
                                                                                                                                                               .db 0x3B, 0x5C, 0x4B, 0x5C, 0x5B, 0x5C, 0x6B, 0x5C,
                                                                                                                                                                                                                                                                                                                                                                                                                         0x7B
                                                                                                                                                                                                                                                                                                                                 ; DATA XREF: sub_0_15FA+41o
0XAB, 0X5C, 0XBB, 0X5C
0X6C, 0X5B, 0X6C, 0X6B
0X9B, 0X6C, 0XAB, 0X6C
                                                                                                                                                                .db 0x5C, 0x8B, 0x5C, 0x9B, 0x5C,
db 0xCB, 0x5C, 0x3B, 0x6C, 0x4B,
db 0x6C, 0x7B, 0x6C, 0x8B, 0x6C,
db 0xBB, 0x6C, 0xCB, 0x6C, 0x3B,
db 0x7C, 0x6B, 0x7C, 0x7B, 0x7C,
db 0xAB, 0x7C, 0xBB, 0x7C, 0xCB,
                                                                                                                                                                                                                                                                                                                                 0x6C,
0x9B,
0x7C,
0x8B,
                                                                                                                                                                                                                                                                                                                                                                0x4B
                                                                                                                                                                                                                                                                                                                                                               0x7C, 0x9B, 0x7C
  364B 8B 36
364D 01 00
364F 98 36
3651 A5 36
                                                                                  message_table:
                                                                                                                                                                  .dw aGAME OVER
                                                                                                                                                                                                                                                                                                                                                                                                     ; DATA XREF: print_message_Afo
                                                                                                                                                                 .dw aPLAYER_I
.dw aPLAYER_II
  3653 B2 36
3655 BF 36
3657 06 00
3659 CC 36
                                                                                                                                                                 .dw aHIGH_SCORE
.dw aCREDIT
                                                                                                                                                                 .dw
                                     36
00
36
36
 3659 CC 36
365B 08 03
365D E6 36
365F FD 36
3661 0B 00
3663 15 37
3665 1C 37
3667 30 37
3668 47 37
366B 5D 37
366B 5D 37
366F 73 37
                                                                                                                                                                 .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 aDASHDASHDASH
                                                                                                                                                                .dw aABCDEFGHIJ
.dw aK_LMNOPQRST
.dw aK_LMNOPQRST
.dw aUVWXYZrubend
.dw aREGITIME
.dw high_score_tbl_ram
.dw hs_tbl_2nd
  3671 8B 37
3673 00 61
3675 22 61
```

.dw hs_tbl_3rd .dw hs_tbl_4th

3677 44 61 3679 66 61

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
 367B 88 61
                                                                                 .dw hs_tbl_5th
  367D
                                                                                  .dw aRANK SCORE NAME
                                                                                  .dw aYOUR_NAME_WAS_REGISTERED
.dw aINSERT_COIN
.dw aPLAYER_COIN
  367F B6 37
  3681 D2
3683 E1
 3685 1D 00
3687 00 3F
                                                                                  .dw 0x1D
                                                                                  dw aCOPYRIGHT 1981
            09 3F
96 76
                                                                                  .dw acoffRight_1901
.dw anintendo_of_AmericA_inc
.dw VRAM_start+0x296
                                         aGAME_OVER:
                                                                                                                                                                                                        ; DATA XREF: 0000:364B o
  368B
           17 11 1D 15+
10 10 1F 26+
94 76
20 1C 11 29+
                                                                                          0x17, 0x11, 0x1D, 0x15, 0x10, 0x10, 0x1F, 0x26, 0x15
 368D
                                                                                  .db
                                 aPLAYER_I:
 368D
                                                                                  .db
                                                                                 .uw varm_start+0x294 ; DATA XREF: 0000:364F|o db 0x20, 0x1C, 0x11, 0x29, 0x15, 0x22, 0x10, 0x30, 0x32 db 0x31, 0x3F
  369A
 369A 20 1C 11 29+
36A5 94 76
36A7 20 1C 11 29+
36A7 15 22 10 30+
36B2 80 76
                                         aPLAYER_II:
                                                                                  .dw VRAM_start+0x294
                                                                                                                                                                                                       ; DATA XREF: 0000:3651 o
                                                                                 db 0x20, 0x1C, 0x11, 0x29, 0x15, 0x22, 0x10, 0x30, 0x33
db 0x31, 0x3F
                                         aHIGH_SCORE:
                                                                                  .dw VRAM start+0x280
                                                                                                                                                                                                        ; DATA XREF: 0000:3653 o
                                                                                           ; DATA X 0x18, 0x19, 0x17, 0x18, 0x10, 0x23, 0x13, 0x1F, 0x22 0x15, 0x3F
 36B4 18 19 17 18+
36B4 10 23 13 1F+
36BF 9F 75
                                                                                  .db
                                                                                  .db 02
                                         aCREDIT:
                                                                                  .dw VRAM start+0x19F
                                                                                                                                                                                                         DATA XREF: 0000:36551o
 36C1 13 22 15 14+
36C1 19 24 10 10+
36CC 5E 77
36CE 18 1F 27 10+
                                                                                  .db 0x13, 0x22, 0x15, 0x14, 0x19, 0x24, 0x10, 0x10, 0x10
.db 0x10, 0x3F
                                                                                                                                                                                                          DATA XREF: 0000:36591o
                                        aHOW HIGH CAN YOU GET: .dw VRAM start+0x35E
                                                                                 db 0x18, 0x1F, 0x27, 0x10, 0x18, 0x19, 0x17, 0x18, 0x10
db 0x13, 0x11, 0x1E, 0x10, 0x29, 0x1F, 0x25, 0x10, 0x17
db 0x15, 0x24, 0x10, 0xFB, 0x10, 0x3F
 36CE 18 19 17 18+
36CE 10 13 11 1E+
36E6 29 77 36E8 1F 1E 1C 29+
                                         aONLY_1_PLAYER_BUTTON:.dw VRAM_start+0x329
                                                                                                                                                                                                      ; DATA XREF: 0000:365D1o
                                                                                 . db 0x1F, 0x1E, 0x1C, 0x29, 0x10, 1, 0x10, 0x20, 0x1C
.db 0x11, 0x29, 0x15, 0x22, 0x10, 1, 0x10, 0x20, 0x1C
.db 0x11, 0x29, 0x15, 0x22, 0x10, 0x12, 0x25, 0x24, 0x24
 36E8 1F 1E 1C 29+
36E8 10 01 10 20+
36E8 1C 11 29 15+
36FD 29 77
                                         + .db 0x1F, 0x1E, 0x3F
al_OR_2_PLAYERS:.dw VRAM_start+0x329
                                                                                                                                                                                                       ; DATA XREF: 0000:365F10
 30FD 29 77 a 36FF 01 10 1F 22+ 36FF 10 02 10 20+ 36FF 1C 11 29 15+ 3715 27 76 a
                                                                    .db 1, 0x10, 0x1F, 0x22, 0x10, 2, 0x10, 0x20, 0x1C, 0x11
.db 0x29, 0x15, 0x22, 0x23, 0x10, 0x12, 0x25, 0x24, 0x24
.db 0x1F, 0x1E, 0x3F
                                         aPUSH:
                                                                                 .dw VRAM start+0x227
                                                                                                                                                                                                      ; DATA XREF: 0000:366310
 3715 27 76 aPUSH: .dw VRAM_start+UX227 ; DATA XREF: 000013663[0 3717 20 25 23 18+ .db 0x20, 0x25, 0x23, 0x18, 0x3F 371C 06 77 aNAME_REGISTRATION:.dw VRAM_start+0x306 ; DATA XREF: 000013665[0 371E 12 11 10 15+ .db 0x1E, 0x11, 0x1D, 0x15, 0x10, 0x22, 0x15, 0x17, 0x19 371E 10 22 15 17+ .db 0x23, 0x24, 0x22, 0x11, 0x24, 0x19, 0x1E, 0x3F 3730 88 76 aNAME: .dw VRAM_start+0x288 ; DATA XREF: 000013667[0 3732 1E 11 10 15+ .db 0x1E, 0x11, 0x1D, 0x15, 0x2E, 0x3F 3738 F9 75 aNDSHDASHDASH: .dw VRAM_start+0x2F1, 0x1D, 0x15, 0x2E, 0x3F 3738 F9 75 aNDSHDASHDASH: .dw VRAM_start+0x1F9
; DATA XREF: 0000:3669 o
                                                                                 , DATA X, db 0x2D, 0x2D, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
                                        + .db (0x2D, 0x2D, 0x2D, 0x10, 0x10,
                                                                                                                                                                                                      ; DATA XREF: 0000:366B10
 3749 13 10 14 10+
3749 15 10 16 10+
375D 0D 77 375F 1B 10 1C 10+
                                         + .db 0x1a, 0x3r
aK_L_M_N_O_P_Q_R_S_T:.dw VRAM_start+0x30D
                                                                         375F 1B 10 1C 10+
375F 1D 10 1E 10+
375F 1F 10 20 10+
3773 0F 77 at
3775 25 10 26 10+
3775 27 10 28 10+
3775 29 10 2A 10+
378B F2 76 at
                                         aU_V_W_X_Y_Z_rub_end:.dw VRAM_start+0x30F
                                                                                                                                                                                                       ; DATA XREF: 0000:366F1o
                                                                          .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:
                                                                                                                                                                                                        DATA XREF: 0000:3671 o
                                                                                  .dw VRAM_start+0x2F2
 ; DATA XREF: 0000:367D\0
                                                                                El.dw VKAM_start+Ux392 ; DATA XI db 0x22, 0x11, 0x1E, 0x1B, 0x10, 0x10, 0x23, 0x13, 0x1F .db 0x22, 0x15, 0x10, 0x10, 0x1E, 0x11, 0x1D, 0x15, 0x10
 37A0 10 10 23 13+
 37A0 10 10 23 13+
37A0 1F 22 15 10+
37B6 72 77 a
37B8 29 1F 25 22+
37B8 10 1E 11 1D+
37B8 15 10 27 11+
37D2 A7 76 a
37D4 1E 23 15+
                                                                                   db
                                         aYOUR_NAME_WAS_REGISTERED:.dw VRAM_start+0x372
                                                                                                                                                                                                       ; DATA XREF: 0000:367F\0
                                                                               .db 0x29, 0x1F, 0x25, 0x22, 0x10, 0x1E, 0x11, 0x1D, 0x15, db 0x10, 0x27, 0x11, 0x23, 0x10, 0x22, 0x15, 0x17, 0x19, db 0x23, 0x24, 0x15, 0x12, 0x15, 0x14, 0x42, 0x35, dw VRAM_start+0x2A7 ; DATA XF
3/D2 A7 76 aINSERT_COIN:

37D4 19 1E 23 15+

37D4 22 24 10 13+

37E1 0A 77 aPLAYER_COIN:

37E3 10 10 20 10+

37E3 11 29 15 22:
                                                                                                                                                                                                          DATA XREF: 0000:3681†o
                                                                                 .dw v.cem_start+UXZA/ ; DATA XI .db 0x19, 0x1E, 0x23, 0x15, 0x22, 0x24, 0x10, 0x13, 0x1F .db 0x19, 0x1E, 0x10, 0x3F
                                                                                 .uw vram_start+0x30A ; DATA XREF: 0000:3683†o .db 0x10, 0x10, 0x20, 0x1C, 0x11, 0x29, 0x15, 0x22, 0x10 .db 0x10, 0x10, 0x10, 0x13, 0x1F, 0x19, 0x1E, 0x3F .dw VRAM_start+0x2FC
 37E3 11 29 15 22+

37F4 FC 76

37F6 49 4A 10 1E+a_NINTENDO:

37F6 19 1E 24 15+
                                                                                .db 0x49, 0x4A, 0x10, .db 0x14, 0x1F, 0x10,
                                                                                                                       0x10, 0x1E, 0x19, 0x1E, 0x24, 0x15, 0x1E
0x10, 0x10, 0x10, 0x10, 0x3F
                                                                                  .dw VRAM_start+0x17C
 3806
            7C 75
            01 09 08 01+ .db 1, 9, 8, 1, 0x3F

02 97 38 68+draw_data_climb:.db 2, 0x97, 0x38, 0x68, 0x38, 2, 0xDF, 0x54, 0x10, 0x54

38 02 DF 54+ ; DATA XREF: display_1UP+3F†0
 3808
380D
  380D
 380D 30 02 DF 34
380D 10 54 02 EF+
380D 6D 20 6D 02+
380D DF 8E 10 8E+
                                                                                 .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
 380D 02 EF AF 20+
                                                                                  .db 0. 0x63. 0x18.
                                                                                                                              0x63, 0x54, 0, 0x93, 0x38, 0x93,
  380D AF 02 DF D0+
380D 10 D0 02 EF+
                                                                                  .db
                                                                                                 0x83, 0x54, 0x83, 0xF1, 0, 0x93, 0x54, 0x93, 0xF1
                                  bonus_graphic_tiles:.db 0x8D, 0x7D, 0x8C
                                                                                                                                                                                                      ; DATA XREF: 0000:064D o
  384A
384D
            8D 7D 8C
6F 00 7C
                                                                                11es: db 0x6b, 0x7c

db 0x6F, 0, 0x7c

db 0x6E, 0, 0x7c

db 0x6D, 0, 0x7c

db 0x6C, 0, 0x7c

db 0x8F, 0x7F, 0x8E

db 0x47, 0x27, 8, 0x50
 3850
3853
3856
            6E 00
           6D
6C
                   00
 3859 8F 7F 8E
            47 27 08 50+c
2F A7 08 50+
3B 25 08 50+
                           08 50+dk_normal_spr:
08 50+
                                                                                                                                                                                                      ; DATA XREF: animate_kong_and_pauline+74\uparrowo; display_1UP+CB\uparrowo ...
 385C
385C
                                                                                 .db 0x2F, 0xA7, 8, 0x50
 385C 3B 25 08 50+
385C 3B 27 07 08 48+
385C 3B 23 07 40+
385C 46 A9 08 44+
385C 00 70 08 48+
385C 30 29 08 44+
385C 00 70 08 48+
385C 00 70 0A 48
                                                                                 .db 0x2F, 0x2F, 8, 0x50
.db 0x3B, 0x25, 8, 0x50
.db 0, 0x70, 8, 0x48
.db 0x3B, 0x23, 7, 0x40
                                                                                 .db 0x38, 0x23, 7, 0x44

.db 0x46, 0xA9, 8, 0x4

.db 0, 0x70, 8, 0x48

.db 0x30, 0x29, 8, 0x4

.db 0, 0x70, 8, 0x48

.db 0, 0x70, 0xA, 0x48

.db 0x6F, 0x10, 9, 0x2

.db 0x6F, 0x11, 0xA, 0

.db 0x6F, 0x11, 0xA, 0
                                                                                                                              0x44
 385C
  3884 6F 10 09 23+pauline_spr:
3884 6F 11 0A 33
  388C 50 34 08 3C dk_climbing_spr:.db 0x50, 0x34, 8, 0x3C
                                                                                                                                                                                                     ; DATA XREF: display_1UP+6D\u00e10
; 0000:168B\u00e10 ...
  388C
  3890 00 35 08 3C
3894 53 32 08 40
                                                                                 .db 0, 0x35, 8, 0x3C
.db 0x53, 0x32, 8, 0x40
.db 0x63, 0x33, 8, 0x40
 3898 63 33 08 40
389C 00 70 08 48
38A0 53 36 08 50
38A4 63 37 08 50
                                                                                 .db 0, 0x70, 8, 0x48
.db 0x53, 0x36, 8, 0x50
.db 0x63, 0x37, 8, 0x50
```

.db 0x6B, 0x31, 8, 0 .db 0, 0x70, 8, 0x48

 0×41

38A8 6B 31 08 41

38AC 00 70 08 48

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
                                                                                                                               .db 0x6A, 0x14, 0xA, 0x48
   38B4 FD FD FD FD+dk_intro_jump_up_data:.db 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFE, 0xFE
38B4 FD FD FD FB+
38B4 FE FF FF FF+
38B4 FE FF FF FF+
38B5 FF FF FF FF+
38B6 FF FF FF FF+dk_intro_jump_left_data:.db 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0, 0xFF, 0, 0, 1, 0
38CB FF 00 FF 00+
38CB FF 00 FF 00+
   38B4 FD FD FD FD+dk_intro_jump_up_data: db 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFE, 0xFE
   38CB 00 01
38CB 01 01
                                                                                                                                                                                                                                                                                                                  ; 0000:0B86†o
                                                     01+
01+ .db 1, 1, 1, 1, 1, 0x7F
10+draw_data_bend_girders_2:.db 4, 0x7F, 0xF0, 0x10, 0xF0, 2, 0xDF, 0xF2, 0x70, 0xF8
; DATA XREF: 0000:0B91
   38DC
                    04 7F F0
   38DC F0 02 DF F2+
38DC 70 F8 02 6F+
38DC F8 10 F8 AA+
                                          DF F2+

02 6F+

.db 2, 0x6F, 0xF8, 0x10, 0xF8, 0xAA, 4, 0xDF, 0xD0, 0x90
F8 AA+

.db 0xD0, 2, 0xDF, 0xDC, 0x20, 0xD1, 0xAA, 0xFF, 0xFF
D0 90+

.db 0xFF, 0xFF, 0xFF, 4, 0xDF, 0xAB, 0x20, 0xAB, 4, 0xFF
DF DC+

.db 0xB0, 0x20, 0xB0, 2, 0xDF, 0xB0, 0x20, 0xBB, 0xAA
A FF+

.db 4, 0xDF, 0x88, 0x30, 0x88, 4, 0xDF, 0x90, 0xB0, 0x90
FF FF+

.db 2, 0xDF, 0x9A, 0x20, 0x8F, 0xAA, 4, 0xBF, 0x68, 0x20
A8 20+

.db 0x68, 4, 0x3F, 0x70, 0x20, 0x70, 2, 0xDF, 0x6E, 0x20
FF BOH

.db 0x79, 0xAA

58 A0+draw_data_bend_girders_1:.db 2, 0xDF, 0x58, 0xA0, 0x55, 0xAA ; DATA XEE
08 44+dk_throw_barrel_spr:.db 0, 0x70, 8, 0x44, 0x2B, 0xAC, 8, 0x4C, 0x3B, 0xAE
; DATA XEE
   38DC 04 DF D0 90+
38DC D0 02 DF DC+
38DC 20 D1 AA FF+
38DC FF FF FF FF+
                    04 DF A8 20+
A8 04 5F B0+
02 DF 58 A0+
   38DC
                                                                                                                                                                                                                                                                                                                 ; DATA XREF: 0000:0B4810
   3932 00
                                                                                                                                                                                                                                                                                                           ; DATA XREF: 0000:1671\u00f30
; sub_0_2C8F+95\u00f30
   3932 2B AC
                                                                                                                                                                                                                                                                                                                  ; DATA XREF: SUD_0_ZE04+98|0;
sub_0_2E04+C4|0
3, 0x7F
, 0x4E, 0x7F
; DATA XREF: SUD_0_2C8F+FD|0;
; DATA XREF: sub_0_2C8F+F4|0;
; DATA XREF: animate_kong_and_pauline+43|0;
; DOMON_2816|0
   39AA FF 00 FF 00+
39AA 00 01 00 01+
   39AA 00 01 00 01+ ..db 0, 0xFF, 0, 0, 1, 0, 1, 1, 2, 2, 2, 2, 3, 3, 39AA 00 01 00 01+ ..db 0, 0xFF, 0, 0, 1, 0, 1, 1, 2, 2, 2, 2, 3, 3, 39C3 1E 4E BB 4C+barell_rolling_data:.db 0x1E, 0x4E, 0xBB, 0x4C, 0xD8, 0x4E, 0x59, 39CC BB 4D 7F barrel_falling_data:.db 0xBB, 0x4D, 0x7F ;
39CC BG 47 27 08 50 dk_thrash_right_spr:.db 0x47, 0x27, 8, 0x50 ;
  390F
3903 2D 26 08 50 .db 0x2D, 0x26, 8, 0x50
39D7 3B 25 08 50 .db 0x3B, 0x25, 8, 0x50
39D8 00 70 08 48 .db 0, 0x70, 8, 0x44
39B7 3B 24 07 40 .db 0x3B, 0x24, 7, 0x40
39B3 4B 28 08 40 .db 0x4B, 0x28, 8, 0x40
39E7 00 70 08 48 .db 0, 0x70, 8, 0x48
39E8 30 29 08 44 .db 0, 0x70, 8, 0x48
39E9 00 70 08 48 .db 0, 0x70, 8, 0x48
39E9 00 70 08 48 .db 0, 0x70, 8, 0x48
39E9 00 70 08 48 .db 0, 0x70, 8, 0x48
39E9 00 70 08 48 .db 0, 0x70, 8, 0x48
39E9 00 70 08 48 .db 0, 0x70, 8, 0x48
39E9 00 70 08 48 .db 0, 0x70, 8, 0x48
39E9 2F A7 08 50 .db 0x3B, 0x25, 8, 0x50
39E8 2F A7 08 50 .db 0x3B, 0x25, 8, 0x50
30E9 300 70 08 48 .db 0, 0x70, 8, 0x48
30C 30C 0X 3B, 0x25, 8, 0x50
30C 3C 0X 3B, 0x25, 8, 0x50
30C 0X 3B, 
                                                                                                                                                                                                                                                                                                                        0000:0816<sup>†</sup>o
                                                                                                                                                                                                                                                                                                              ; DATA XREF: animate kong and pauline+4Afo
                   3A0F 00 70 08 48
3A13 2B A8 08 40
3A17 00 70 08 48
3A1B 00 70 0A 48
   3A1F
                                                                                                                                                                                                                                                                                                           ; DATA XREF: 0000:1870 o
   3A23 8B 27 88 60
3A27 7F 25 88 60
3A2B 00 70 88 68
; DATA XREF: 0000:17D9\cdot
                                                                                                                                                                                                                                                                                                              ; DATA XREF: 0000:17E50; DATA XREF: 0000:17F10; DATA XREF: 0000:17FD0; DATA XREF: 0000:18A50;
                                                                                                                                                                                                                                                                                                                       DATA XREF: 0000:1085f0
DATA XREF: 0000:1799f0
0000:1947f0
   3A73 F0 00 FF FF+fireball_bouncing_data:.db 0xFF, 0, 0xFF, 0xFF, 0xFE, 0xFE, 0xFE, 0xFE, 0xFE 3A7A FF FE FE FE+

3A7A FF FE FE FE+

3A7A FE FE FE FE+
   3ATA FF FE FE FE+

3ATA FE FE FE FE+

.db 0xFE, 0xFE, 0xFE, 0xFE, 0xFE, 0xFE, 0xFE, 0xFE, 0xDE, 
   3A8C E1 E0 DF DE+
3A8C DD DD DC DC+
3A8C DC DC DC DC+
                                                                                                                          .db 0xDD, 0xDC, 0xDC, 0xDC, 0xDC, 0xDC, 0xDC, 0xDC, 0xDD, 0xDD.
.db 0xDE, 0xDF, 0xE0, 0xE1, 0xE2, 0xE3, 0xE4, 0xE5, 0xE7.
.db 0xE9, 0xEB, 0xED, 0xF0, 0xAA
                                                      DC+ .db 0xE9, 0xEB, 0xED, 0xF0, 0xAA
76+cement_fireball_data:.db 0x80, 0x7B, 0x78, 0x76, 0x74, 0x73, 0x72, 0x71, 0x70
; DATA XREF: sub_0_3478+F|o
    3A8C DD DD DE DF+
3AAC 80 7B 78 76+
                                                                                                                           .db 0x70, 0x6F, 0x6F, 0x6F, 0x70, 0x70, 0x71, 0x72, 0x73
.db 0x74, 0x75, 0x76, 0x77, 0x78, 0xAA
   JAMAL OF 70 70 71+ .db 0x74, 0x75, 0x76, 0x77, 0x78, 0x8A

3AC4 EE F0 DB A0+rivet_fireball_data:.db 0xEE, 0xF0, 0xDB, 0xA0, 0xE6, 0xC8, 0xD6, 0x78, 0xEB

3AC4 EB F0 DB A0+ .db 0xF0, 0xDB, 0xA0, 0xE6, 0xC8, 0xE6, 0xC8

3AD4 B C8 23 A0+rivet_fireball_start_points:.db 0x1B, 0xC8, 0x23, 0xA0, 0x2B, 0x78, 0x12, 0xF0, 0x1B
   3AD4 2B 78 12 F0+ ; DATA XREF: sub_0.
3AD4 1B C8 23 AO+ . db 0xc8, 0x23, 0xAO, 0x12, 0xF0, 0x1B, 0xc8
3AD4 2D 78 868+barrel_level_tilemap_data:.db 2, 0x97, 0x38, 0x68, 0x38, 2, 0x9F, 0x54, 0x10, 0x54
3AE4 38 02 9F 54+ ; DATA XREF: 0000:
                                                                                                                                                                                                                                                                                                              ; DATA XREF: sub_0_34B9+3410
                                                                                                                            ; DATA XREF: 0000 ; sub_0_2441+1910 .db 2, 0xDF, 0x58, 0xA0, 0x55, 2, 0xEF, 0x6D, 0x20, 0x79 .db 2, 0xDF, 0x9A, 0x10, 0x8E, 2, 0xEF, 0xAF, 0x20, 0xBB .db 2, 0xDF, 0xDC, 0x10, 0xD0, 2, 0xFF, 0xF0, 0x80, 0xF7 .db 2, 0x7F, 0xF8, 0, 0xF8, 0, 0xCB, 0x57, 0xCB, 0x6F .db 0, 0xCB, 0x99, 0xCB, 0xB1, 0, 0xCB, 0xDB, 0xCB, 0xF3 .db 0, 0x63, 0x18, 0x63, 0x54, 1, 0x63, 0xDB, 0xCB, 0xF3
                                                                                                                                                                                                                                                                                                                  ; DATA XREF: 0000:0CD410
   3AE4 50 02 5F 54+
3AE4 10 54 02 DF+
3AE4 58 A0 55 02+
   3AE4 58 A0
3AE4 EF 6D
   3AE4 02 DF 9A 10+
    3AE4 8E 02 EF AF+
3AE4 20 BB 02 DF+
   3AE4 DC 10 D0 02+
3AE4 FF F0 80 F7+
                                                                                                                               .db
                                                                                                                                                       0x33.
                                                                                                                                                                              0x78
                                                                                                                                                                                                    0x33
                                                                                                                                                                                                                           0x90
                                                                                                                                                                                                                                                            0x33
                                                                                                                                                                                                                                                                                  0xBA
                                                                                                                                                       0x53, 0x18, 0x53, 0x54,
0x5B, 0x76, 0x5B, 0x92,
0x83, 0x95, 0x83, 0xB5,
    3AE4 02
3AE4 F8
                              7F F8
00 CB
                                                                                                                               .db
                                                                                                                                                                                                                                                            0x53,
0x73,
                                                                                                                                                                                                                                                                                  0x92, 0x53, 0xB8
0xB6, 0x73, 0xD6
                                                                                                                                .db
   3AE4 CB 6F 00 CB+
                                                                                                                               .db 0,
                                                                                                                                                                                                                                                            0x93,
                                                                                                                                                                                                                                                                                   0x38,
                                                                                                                                                                                                                                                                                                         0x93,
                                                                                                                                                                                                                                                                                                                                0x54
                                                                                                                                                                                                                                                                                  0x54, 0x6B,
```

3AE4 99 CB B1 00+

3B5D 90 06 8F 98+

3B5D 70 98 06 8F+

dh

0xBB, 0x70, 0xBB, 0x98,

38E4 CB DB CB F3+ .db 0xAA
38E5 D6 8F 90 70+cement_pie_level_tilemap_data:.db 6, 0x8F, 0x90, 0x70, 0x90, 6, 0x8F, 0x98, 0x70,

1, 0x6B,

; DATA XREF: 0000 ; sub_0_2441+201c

0000:0CDF10

VRAM_start+0x2CF

.dw

3D65 02

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
  3D66 D2 76
                                                                                    .dw VRAM_start+0x2D2
  3D68 05
                                                                                     .db
  3D69 8F 76
3D6B 05
3D6C 6F 76
                                                                                     .dw VRAM_start+0x28F
                                                                                     .dw VRAM_start+0x26F
 3D6E 01
3D6F 4F 76
3D71 01
3D72 53 76
                                                                                     .db
                                                                                     .dw VRAM_start+0x24F
                                                                                     .dw VRAM_start+0x253
  3D74 05
                                                                                     .db
 3D75 2F 76
3D77 05
3D78 EF 75
                                                                                    .dw VRAM_start+0x22F
.db 5
                                                                                     .dw VRAM_start+0x1EF
 3D7A 02
3D7B D0 75
3D7D 02
3D7E B1 75
                                                                                     .db
                                                                                    .dw VRAM_start+0x1D0
.db 2
                                                                                     .dw VRAM start+0x1B1
 3D80 05
3D81 8F 75
                                                                                    .db 5
.dw VRAM_start+0x18F
  3D81 8F
3D83 03
                                                                                     .db
  3D84 50 75
                                                                                     .dw VRAM start+0x150
  3D84 30 73
3D86 05
3D87 2F 75
3D89 01
                                                                                     .db
                                                                                     .dw VRAM_start+0x12F
                                                                                     .db
  3D8A OF 75
                                                                                     .dw VRAM_start+0x10F
            01
13 75
                                                                                    .db 1
.dw VRAM_start+0x113
  3D8F
                                                                                     .db
  3D90 EF 74
                                                                                     .dw VRAM_start+0xEF
  3D90 EF 74
3D92 01
3D93 F1 74
3D95 01
                                                                                     .db
                                                                                              VRAM_start+0xF1
                                                                                    .dw
 3D96 F3 74
3D98 02
                                                                                     .dw VRAM_start+0xF3
.db 2
  3D98 02
3D99 D1 74
                                                                                     .dw VRAM_start+0xD1
  3D9B 00
                                                                                      .db
 3D9C 00 00 23 68+level_init_data:.db 0, 0, 0x23, 0x68, 1, 0x11, 0, 0, 0, 0x10, 0xDB, 0x68
3D9C 01 11 00 00+ ; DATA XI
3D9C 00 10 DB 68+ .db 1, 0x40, 0, 0, 8, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0
                                   DATA XREF: 0000:0F6F10
  3D9C 01 40 00 00+
 .db 0, 0, 0, 0, 0x80, 1, 0xC0, 0xFf, 1, 0x8
3D9C 08 01 01 01 01+ .db 0xC3, 0x39, 0, 0x67, 0x80, 0x69, 0x1A,
3D9C 01 01 01 01+ .db 0, 0, 0, 0, 0, 4, 0, 0x10, 0, 0, 0, 0,
3DDC 1E 18 0B 4B+top_barrel_spr: .db 0x1E, 0x18, 0xB, 0x4B, 0x14, 0x18, 0xB,
3DDC 14 18 0B 4B+ .db 0x18, 0xB, 0x3B, 0x14, 0x18, 0xB, 0x3B
3DBC 3D 01 03 02 fireball_spr: .db 0x18, 0xB, 0x3B, 0x14, 0x18, 0xB, 0x3B
                                                                                                                                                                                                              ; DATA XREF: 0000:0FD710
| DATA | XREF: 3DEC | 3
                                                                                                                                                                                                                 0000:101Ffo ...
DATA XREF: 0000:1131fo
DATA XREF: 0000:0FEFfo
DATA XREF: 0000:1049fo
                                                                                                                                                                                                                 DATA XREF: 0000:0FF5|0
DATA XREF: 0000:104F|0
DATA XREF: init_hammer_sprites+9|0
DATA XREF: 0000:1000|0
                                                                                                                                                                                                             ; DATA XREF: 0000:1070\u00f30
; DATA XREF: 0000:113D\u00f30
; DATA XREF: 0000:102E\u00f30
; DATA XREF: 0000:105A\u00f30
50 .db 0x75, 0xA, 0x50
04 elevator_spr: .db 0x44, 3, 8, 4 ; DATA XRE
C0+elevator_spr_locs:.db 0x37, 0xF4, 0x37, 0xC0, 0x37, 0x8C, 0x77, 0x70, 0x77
 3E54 33 75 0A
3E60 44 03 08
3E64 37 F4 37
                                                                                                                                                                                                                 DATA XREF: 0000:10C31o
                                                                                                                                                                                                             ; DATA XREF: 0000:10B7\u00e90
 3E64 37 8C 77 70-
3E64 77 A4 77 D8
3E70
3E70
                                                                                    .db 0xA4, 0x77, 0xD8
 3E70
                                          loc_0_3E70:
                                                                                                                                                                                                             ; CODE XREF: check_and_handle_bonus+1A j
 3E70 11 01 00
3E73
                                                                                   ld
                                                                                                        de, #1
  3E73
                                           loc 0 3E73:
  3E73 06 7B
3E75 1F
                                                                                    ld
                                                                                                       b, #0x7B; '{'
  3E75 1F
3E76 D2 28 1E
                                                                                    rra
                                                                                                        NC, loc_0_1E28
                                                                                    jp
ld
 3E79 1E 03
3E7B 06 7D
3E7D 1F
                                                                                    ld
rra
                                                                                                        b, #0x7D; '}'
  3E7E D2 28 1E
3E81 1E 05
3E83 06 7F
                                                                                                        NC, loc_0_1E28
                                                                                    jp
ld
                                                                                    ld
                                                                                                             #0x7F ; ' '
  3E85 C3 28 1E
                                                                                    jp
                                                                                                        loc_0_1E28
  3E88
                                                                                    SUBROUTINE
 3E88
 3E88
3E88
                                            sub 0 3E88:
                                                                                                                                                                                                             ; CODE XREF: sub 0 2853+181p
  3E88
 3E88 3A 27 62
3E8B E5
3E8C EF
3E8C
                                                                                    1d
                                                                                                        a, (level_type)
                                                                                                                                                                                                              ; go!
                                                                                    rst
  3E8D 00 00
                                                                                                                                                                                                              ; Jump table
  3E8F 99 3E
3E91 B0 28
                                                                                     .dw loc_0_3E99
                                                                                     .dw 12_check_hammer_hit .dw 13_check_hammer_hit
  3E93 E0 28
 3E95 E0 20
3E95 01 29
3E97 00 00
3E99
                                                                                             14_check_hammer_hit
 3E99
  3E99
3E99 E1
                                           loc_0_3E99:
                                                                                                                                                                                                              ; DATA XREF: sub_0_3E88+7↑o
                                                                                    pop
                                                                                                        a (unk_0_6060), a b, #0xA de, #0x20; ' ' #0x6 6700
  3E9A AF
                                                                                    xor
 3E9A AF

3E9B 32 60 60

3E9E 06 0A

3EA0 11 20 00

3EA3 DD 21 00

3EA7 CD C3 3E
                                                                                    ld
ld
```

ld 1d

call

#unk_0_6700

sub_0_3EC3

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 17/12/2013, 12:13:51 AM
3EAA 06 05
                                               ld
                                                          b, #5
3EAA 06 05
3EAC DD 21 00 64
3EB0 CD C3 3E
3EB3 3A 60 60
3EB6 A7
3EB7 C8
3EB8 FE 01
3EBA C8
3EBB FE 03
3EBB FE 03
                                                                #unk_0_6400
                                               ld
                                                          ix.
                                                                                                                  ; fireball character data
                                                          sub_0_3EC3
a, (unk_0_6060)
                                               call
ld
and
                                               ret
                                               cp
ret
                                                          Z
#3
                                               cp
ld
3EBD 3E 03
3EBF D8
3EC0 3E 07
3EC2 C9
                                                          a, #3
C
                                               ret
ld
                                                          a, #7
                                              ret
3EC2
3EC2
3EC3
3EC3
                        ; End of function sub_0_3E88
                              SUBROUTINE
3EC3
3EC3
3EC3
3EC3
3EC3
DD CB 00 46
3EC3
3EC7 CA FA 3E
3ECA 79
                                                                                                                   ; CODE XREF: sub_0_3E88+1F<sup>†</sup>p; sub_0_3E88+28<sup>†</sup>p ...
                        sub_0_3EC3:
                                                          0, 0(ix)
Z, loc_0_3EFA
                                              bit
                                               jp
ld
3ECA 79
3ECB DD 96 05
                                                          a, c
5(ix)
                                               sub
3ECE D2 D3 3E
3ED1 ED 44
                                                          NC, loc_0_3ED3
                                               neg
3ED3
3ED3
                        loc_0_3ED3:
                                                                                                                  ; CODE XREF: sub 0 3EC3+B1i
3ED3 3C
3ED4 95
3ED5 DA DE 3E
                                              inc
sub
                                                             , loc_0_3EDE
                                               jр
3ED8 DD 96 0A
3EDB D2 FA 3E
3EDE
                                                          0xA(ix)
NC, loc_0_3EFA
                                               sub
                                               jp
                                                                                                                  ; CODE XREF: sub 0 3EC3+121 i
                        loc 0 3EDE:
3EDE
3EDE 3EDE 7D 7E 03 3EE1 DD 96 03 3EE4 D2 E9 3EE7 ED 44 3EE9 3EE9 94
                                                          a, 3(iy)
3(ix)
NC, loc_0_3EE9
                                               1d
                                               sub
                                               jр
                                               nea
                                                                                                                  ; CODE XREF: sub_0_3EC3+21 j
                        loc_0_3EE9:
                                               sub
3EEA DA F3 3E
3EED DD 96 09
3EF0 D2 FA 3E
                                                          n
C, loc_0_3EF3
9(ix)
NC, loc_0_3EFA
                                              jp
sub
jp
3EF3
3EF3
                        loc 0 3EF3:
                                                                                                                  ; CODE XREF: sub 0 3EC3+271i
3EF3 3A 60 60
3EF6 3C
3EF7 32 60 60
                                               ld
                                                          a, (unk_0_6060)
                                                          (unk_0_6060), a
                                              1d
3EFA
3EFA
3EFA DD 19
                        loc_0_3EFA:
                                                                                                                   ; CODE XREF: sub_0_3EC3+4<sup>†</sup>j
; sub_0_3EC3+18<sup>†</sup>j ...
3EFA
3EFC 10 C5
3EFE C9
                                               add
                                                          ix. de
                                               djnz
                                                          sub_0_3EC3
                                               ret
                        ; End of function sub_0_3EC3
3EFE
3F24
3F24
3F24
3F24
3F24 21 AF 74
3F27 11 E0 FF
3F2A 36 9F
3F2C 19
                              SUBROUTINE
                                                                                                                   ; CODE XREF: 0000:081C1p
                       display_tm:
                                                         hl, #VRAM_start+0xAF
de, #0xFFE0
(hl), #0x9F; 'f'
hl, de
(hl), #0x9E; 'x'
                                              1d
                                              ld
ld
                                               add
3F2D 36 9E
                                              ld
3F2F C9
3F2F
3F2F
                        ; End of function display_tm
3FA0
3FA0
3FA0
3FA0 CD A6 3F
3FA3 C3 5F 0D
                                                                                                                   ; CODE XREF: 0000:0CD1<sup>†</sup>j
                        init_level_data_tmrs_spr:
                                                       fix_retractable_ladders
init_level_data_tmrs_spr_cont
                                              call
jp
3FA6
3FA6
3FA6
                                               SUBROUTINE
3FA6
3FA6
3FA6 3E
3FA8 F7
                        fix_retractable_ladders:
                                                                                                                   ; CODE XREF: 0000:3FA01p; ladders for cement pie level; return if level bit not set
       3E 02
                                              ld
rst
                                                         a, #3
0x30
3FA9 06 02
3FAB 21 6C 77
3FAE
                                                          b, #2
hl, #VRAM_start+0x36C
                                               1d
3FAE
                        loc 0 3FAE:
                                                                                                                  ; CODE XREF: fix retractable ladders+11-i
3FAE 36 10 3FB0 23 3FB1 23 3FB2 36 C0 3FB4 21 8C 74 3FB7 10 F5 3FB9 C9
                                              ld
                                                          (hl), #0x10
                                               inc
                                                          hl
hl
                                                          (h1), #0xC0; 'L'
h1, #VRAM_start+0x8C
loc_0_3FAE
                                               ld
                                               1d
                                               djnz
```

ret
; End of function fix_retractable_ladders

.db 0, 0, 0, 0, 0, 0

SUBROUTINE

; CODE XREF: 0000:22851p

3FB9 3FB9 3FB9

3FC0 3FC0 3FC0

3FC0

3FBA 00 00 00 00+

sub_0_3FC0:

```
3FC0 21 4D 69
                                                                                     hl, #soft_sprite_ram+0x4D
                                                                     ld
  3FC0 21 4D
3FC3 36 03
3FC5 2C
3FC6 2C
3FC7 C9
3FC7
3FC7
                                                                                     (hl), #3
                                                                     ld
                                                                    inc
inc
ret
                                                                                     1
                                    ; End of function sub_0_3FC0
3FC7
3FC8 00 00 41 7F+
                                                                    .db 0, 0, 0x41, 0x7F, 0x7F, 0x41, 0, 0, 0, 0x7F, 0x7F
.db 0x18, 0x3C, 0x76, 0x63, 0x41, 0, 0, 0x7F, 0x7F, 0x.
.db 0x49, 0x49, 0x41, 0, 0x1C, 0x3E, 0x63, 0x41, 0x49
.db 0x79, 0x79, 0, 0x7C, 0x7E, 0x13, 0x11, 0x13, 0x7E
.db 0x7C, 0, 0x7F, 0x7F, 0xE, 0x1C, 0xE, 0x7F, 0x7F, 0x0B, 0x7F, 0x7F, 0x41, 0, 0
  6000
6000
6000
                                    ; Segment type: Regular
; segment 'RAM'
  6000
6000 ??
6001 ??
6001
                                                                     .org 0x6000
                                                                                                                                                                      ; DATA XREF: 0000:0268†o
; DATA XREF: display_credits+5†o
; 0000:073F†r ...
                                                                    .ds 1
                                    RAM start:
                                    no_of_credits:
 6001
6002 ??
6003 ??
6004 ??
6005 ??
                                                                     .ds 1
                                                                     .ds
                                    coin_state:
                                                                                                                                                                      ; DATA XREF: check_coin_inserted+5<sup>o</sup>
                                                                                                                                                                      ; DATA XREF: 0000:00C6\r ; check_coin_inserted+12\r ...
                                   nmi sequencer: .ds
  6006 ??
6007 ??
6008 ??
                                    attract_mode_flag:.ds 1
sixteen_bit_countdown_msb:.ds 1
                                                                                                                                                                      ; DATA XREF: return_NOT_16bit_timeout o
                                                                                                                                                                      ; DATA XREF: return_NOT_8bit_timeout or 0000:078E or 0...

DATA XREF: 0000:01EE w

0000:06FE or 0...
  6009*??
                                    eight_bit_countdown:.ds 1
  6009*
600A ??
600A
                                   main_sequencer: .ds 1
 600A
600B ??
600C ??
600D ??
600E ??
6010 ??
6010 ??
6011 ??
6012 ??
6013 ??
6014 ??
6015 ??
                                  .ds 1
.ds 1
current_player_D: .ds 1
current_player_E: .ds 1
two_players: .ds 1
controller_in: .ds 1
                                                                                                                                                                      ; DATA XREF: 0000:00AC<sup>†</sup>w
; 0000:1502<sup>†</sup>r ...
                                   last_raw_in:
                                                                     .ds
                                                                     .ds
           ??
                                                                     .ds
                                                                      dя
  6016 ??
6016 ??
6017 ??
6018 ?? ??
                                                                      .ds
                                                                      .ds
                                                                                                                                                                      ; DATA XREF: rand↑r
                                   random no:
                                                                     .ds 2
  6018
601A ??
601A
                                                                                                                                                                          rand+B1w
                                                                                                                                                                      ; rand+B<sup>†</sup>w ...
; DATA XREF: rand+3<sup>†</sup>o
; 0000:00B5<sup>†</sup>o ...
                                   gen_purpose_timer:.ds 1
  601B ??
601C ??
601D ??
601E ??
                                                                     .ds 1
                                                                     .ds
.ds
                                                                      .ds
  601F ??
6020 ??
6020
6021 ??
                                                                       ds
                                                                                                                                                                         DATA XREF: read_dips_and_high_score_tbl+4\|^\ o\) 0000:0922\|^\ r\ ...\
DATA XREF: check_and_award_bonus+1E\|^\ o\) 7/10/15/20K
                                   lives_per_game:
                                   bonus setting: .ds 1
  6021
  6022 ?? ?? ?? ?? coinage:
6026 ?? upright:
                                                                                                                                                                          DATA XREF: check_coin_inserted+27\dagger o
DATA XREF: 0000:0087\dagger
 6026 ??
6026
6027 ??
6028 ??
6029 ??
602B ??
602C ??
602E ??
                                                                                                                                                                         0000:099Ffr ...
                                                                      ds
                                                                     .ds
.ds
                                                                      .ds
                                                                     .ds
.ds
.ds
  602E ??
602F ??
6030 ??
6030
                                                                      .ds
                                                                                                                                                                      ; DATA XREF: 0000:1499<sup>†</sup>o; 0000:14FC<sup>†</sup>o
                                   unk_0_6030:
                                                                     .ds
 6031 ??
6032 ??
6032 6033 ??
6034 ??
6035 ??
6036 ??
6038 ??
6038 ??
6038 ??
6030 ??
6030 ??
                                   unk_0_6031:
unk_0_6032:
                                                                      .ds
                                                                                                                                                                      ; DATA XREF: 0000:158A\u00e100; 0000:15B2\u00e1w
                                                                     .ds
                                   unk_0_6034:
unk_0_6035:
unk_0_6036:
                                                                     .ds
                                                                                                                                                                      ; DATA XREF: 0000:14DC o
                                                                     .ds
                                                                     .ds
                                   unk_0_6038:
                                                                     .ds
                                   unk 0 603A:
                                                                      .ds
                                                                     .ds
                                                                      .ds
  603F ??
6040 ??
6040
6040
                                                                      .ds
                                   p1_ingame_data:
                                                                     .ds
                                                                                                                                                                      ; DATA XREF: 0000:093E o
                                                                                                                                                                      ; 0000:09AB o ...; game init data copied here
 6040
6041 ??
6042 ?? ??
6044 ??
6045 ??
6046 ??
6047 ??
6048 ??
                                                                      .ds
                                                                     .ds
                                                                                                                                                                      ; ptr sequence data
                                                                      .ds
                                                                      .ds
                                                                                                                                                                      ; DATA XREF: 0000:09091o
                                   p2 ingame data:
                                                                    .ds
  6048 ??
6048
6049 ??
604A ??
604C ??
604C ??
604E ??
                                                                                                                                                                      ; 0000:091Ffo .
                                                                     .ds
                                                                     .ds
                                                                      .ds
                                                                     .ds
           ??
                                                                      .ds
  604F
  6050
6051
6052
                                                                     .ds
.ds
.ds
  6053
                                                                      .ds
  6054 ??
```

```
608A ??
608B ??
608B ??
608C ??
608E ??
608E ??
608F ??
609C ??
6091 ??
6096 ??
6096 ??
6097 ??
6096 ??
6096 ??
6097 ??
6096 ??
6097 ??
6097 ??
6098 ??
6098 ??
6098 ??
6098 ??
6098 ??
6098 ??
6098 ??
6098 ??
6098 ??
6098 ??
6098 ??
6098 ??
6098 ??
6098 ??
                                                                                  ??
60AB
60AC
60AD
60AE
                                                                                   .ds
.ds
                                                                                   .ds
 60AF ??
60BO ??
60B1 ??
60B2 ?? ?? ??
                                                                                    .ds
                                           fg_fn_queue_tail:
                                          fg_fn_queue_head:.ds
                                                                                                                                                                                                          ; DATA XREF: 0000:01C9 o
                                         p1_score:
                                                                                  .ds 3
 60B2
60B5
60B5
60B5
                                                                                                                                                                                                             DATA XREF: corre_DE\0 ...
DATA XREF: current_player_score_DE+8\0 zero_score_or_high_score+D\0 ...
DATA XREF: add_bonus_and_update_high_score+37\0 o
                                          p2_score:
 60B8 ?? ?? ??
                                         high_score:
                                                                                  .ds 3
 60B8
60BB ??
                                                                                                                                                                                                              zero_score_or_high_score+1510 ...
60BB ??
60BC ??
60BD ??
60BB ??
60BE ??
60BF ??
60BF ??
60BF ??
60C0 ?? ?? ?? ??+fg_vector_fn_params:.ds 0x4(
60C0 ?? ?? ?? ?? ?+high_score_tbl_ram:.ds 0x22
6100 ?? ?? ?? ?? ?+
6100 ?? ?? ?? ?? ?+
6100 ?? ?? ?? ?? ??+
6102 ?? ?? ?? ?? ??+
                                  ??+fg_vector_fn_params:.ds 0x40
                                                                                                                                                                                                             DATA XREF: 0000:0291 o
                                                                                                                                                                                                              Queue_fg_vector_fn+1|o
DATA XREF: read_dips_and_high_score_tbl+56|o
0000:3673|o
                                                                                                                                                                                                             DATA XREF: 0000:36751o
```

```
6122 ?? ?? ?? ?? ?? **
6144 ?? ?? ?? ?? **
6166 ?? ?? ?? ?? **
6166 ?? ?? ?? ?? **
6166 ?? ?? ?? ?? **
6166 ?? ?? ?? ?? **
6168 ?? ?? ?? ?? **
6188 ?? ?? ?? ?? **
6188 ?? ?? ?? ?? **
6188 ?? ?? ?? ?? **
6188 ?? ?? ?? ?? **
6188 ?? 6180 ??
6181 ?? 6181 ?? 6181 ?? 6182 ??
6183 ?? 6185 ?? 6186 ?? 6186 ?? 6188 ?? 6188 ?? 6188 ?? 6188 ?? 6188 ?? 6188 ?? 6188 ?? 6188 ?? 6188 ?? 6188 ?? 6188 ?? 6188 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ?? 6180 ??
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DATA XREF: 0000:36771o
                                                                                                                                                                                                                                                        .ds 0x22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3rd
DATA XREF: 0000:3679↑0
4th
                                                                                                                                                                                                                                                      .ds 0x22
                                                                                                                                                                                                                                                        .ds 0x22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DATA XREF: 0000:367Bto
                                                                                                                                                                                                                                                           .ds
                                                                                                                                                                                                                                                             .ds
                                                                                                                                                                                                                                                           .ds
.ds
.ds
                                                                                                                                                                                                                                                           .ds
.ds
.ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; DATA XREF: sub_0_13CA+D10
                                                                                                                                                                                                                                                             .ds
.ds
.ds
.ds
.ds
.ds
.ds
.ds
                                                                                                                                                                                                                                                             .ds
.ds
.ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; DATA XREF: sub_0_13CA†o
; DATA XREF: sub_0_13CA+2F†o
                                                                                                                                                                                                                                                           61FF ??
6200 ??
6200
6201 ??
                                                                                                                                                                                                                                                              .ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; DATA XREF: return_if_mario_not_alive|r
; 0000:0BE3|r ...
                                                                                                                               mario_alive_flag:.ds 1
                                                                                                                                                                                                                                                           .ds 1
   6201 ??
6202 ??
6203 ?
6204 ??
6205 ??
6206 ??
6207 ??
6207 ??
6208 ??
6209 ??
                                                                                                                                unk_0_6202:
mario_y:
                                                                                                                                                                                                                                                              .ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; DATA XREF: animate_kong_and_pauline+D6↑r
; animate_kong_and_pauline+10E↑r ...
                                                                                                                                  unk_0_6204:
                                                                                                                                                                                                                                                           .ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; DATA XREF: sub_0_19DA+13 r; sub_0_1A33+22 r ...
                                                                                                                                  mario_x:
                                                                                                                                unk_0_6206: .ds 1
mario_flipy_sprite_tile:.ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; DATA XREF: sub_0_1AC3+54\u00e10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; sub_0_1AC3+9D1o ...
                                                                                                                                  mario_flipx_colour:.ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; DATA XREF: 0000:0FA5\u00f10; init to 4; init to 8
                                                                                                                                  unk_0_6209:
                                                                                                                                                                                                                                                        .ds 1
   6209
620A ??
620B ??
620C ??
620D ??
620E ??
                                                                                                                                  .ds 1 mario_x_before_jump:.ds
                                                                                                                                  mario_y_before_jump:.ds 1
                                                                                                                                                                                                                                                           .ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DATA XREF: sub_0_1AC3+E6\frac{1}{w}
sub_0_1AC3+1B6\frac{1}{o} \dots \dot
                                                                                                                                unk_0_620E:
      620F ??
                                                                                                                                unk_0_620F:
                                                                                                                                                                                                                                                        .ds 1
      620F
```

```
620F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mario_???
DATA XREF: sub_0_1AC3+B0<sup>o</sup>
6210 ??
6210 ??
6211 ??
6212 ??
6214 ??
6215 ??
6216 ??
6217 ??
6218 ??
6218 ??
6218 ??
6218 ??
6210 ??
6210 ??
6210 ??
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6228 ??
                                                                                                                            unk 0 6210:
                                                                                                                                                                                                                                                  .ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; sub_0_1F46+F<sup>†</sup>w ...
                                                                                                                            unk_0_6211:
unk_0_6212:
unk_0_6213:
                                                                                                                                                                                                                                                  .ds
.ds
.ds
                                                                                                                            unk_0_6214:
mario_climbing:
                                                                                                                                                                                                                                                     .ds
                                                                                                                                                                                                                                                  .ds
                                                                                                                         mario_jumping:
unk_0_6217:
unk_0_6218:
unk_0_6219:
unk_0_621A:
                                                                                                                                                                                                                                                     .ds
                                                                                                                                                                                                                                                  .ds
.ds
.ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; DATA XREF: sub_0_1AC3+5D<sup>†</sup>o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; sub_0_1AC3+2B3|r ...
                                                                                                                                                                                                                                                .ds 1
                                                                                                                         unk_0_621C:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; DATA XREF: sub_0_1AC3+262\u00f10
; sub_0_1AC3+2BD\u00f1r
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; DATA XREF: sub_0_1AC3+7 r; sub_0_1AC3+92 o ...
                                                                                                                         unk_0_621E:
                                                                                                                          unk 0 621F:
                                                                                                                                                                                                                                                    .ds
                                                                                                                         unk_0_6221:
unk_0_6221:
unk_0_6222:
                                                                                                                                                                                                                                                  .ds
.ds
.ds
                                                                                                                                                                                                                                                    .ds
                                                                                                                          unk_0_6224:
unk_0_6225:
                                                                                                                                                                                                                                                  .ds
                                                                                                                                                                                                                                                     .ds
                                                                                                                         level_type:
                                                                                                                                                                                                                                                     .ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; DATA XREF: sub_0_30+14\uparrow o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DATA XREF: SUD_U_SU+14|0
0000:01EA|w ...

DATA XREF: 0000:01D9|w
check_and_award_bonus+28|0 ...
DATA XREF: 0000:01D6|w
difficulty_timer_tick+15|r ...
keeps incrementing
                                                                                                                          lives_left:
                                                                                                                                                                                                                                                .ds 1
6229 ??
6229 ??
6229 ??
6220 ??
6221 ??
6222 ??
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6231 ??
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6278 ??
6279 ??
                                                                                                                          level:
                                                                                                                                                                                                                                                  .ds 1
                                                                                                                             seq data:
                                                                                                                                                                                                                                                  .ds 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; DATA XREF: display_1UP+1B\u00e10 o ; 0000:12F6\u00e1w ...
                                                                                                                             seen_intro:
                                                                                                                                                                                                                                                  .ds 1
                                                                                                                            awarded_bonus_life:.ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; DATA XREF: 0000:0C05†r; 0000:0C0E†w ...
                                                                                                                          height:
                                                                                                                                                                                                                                                  .ds 1
                                                                                                                            last_seq_lsb:
                                                                                                                                                                                                                                                    .ds
                                                                                                                                                                                                                                                  . ds state s
                                                                                                                                                                                                                                                     .ds
```

```
627A ??
627B ??
627C ??
627D ??
627E ??
627F ??
6280 ??
6280 ??
6281 ??
                                                                                                                                                                           .ds 1
                                                                                                                                                                            .ds
                                                                                                                                                                            .ds
.ds
.ds
                                                                                                                                                                            .ds
                                                                                     unk_0_6280:
                                                                                                                                                                            .ds
                                                                                                                                                                                                                                                                                                                                                                                                                               ; DATA XREF: 0000:0F64\u00e10
; 0000:0F72\u00e10 ...
6281 ??
6282 ??
6283 ??
6284 ??
6285 ??
6286 ??
6288 ??
6288 ??
6288 ??
6280 ??
628E ??
628E ??
                                                                                                                                                                          .ds
                                                                                                                                                                          .ds
.ds
.ds
                                                                                                                                                                          .ds
.ds
.ds
                                                                                     unk_0_6288:
                                                                                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: sub_0_2207+E<sup>o</sup>
                                                                                                                                                                          .ds
.ds
.ds
                                                                                                                                                                            .ds
                                                                                                                                                                           .ds
                                                                                      unk_0_6290:
                                                                                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: sub_0_1A33+53<sup>†</sup>o; sub_0_1E57+29<sup>†</sup>r
                                                                                                                                                                          .ds
 6290
6290
6291
6292
6293
6294
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6291 ??
6292 ??
6294 ??
6295 ??
6296 ??
6297 ??
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6299 ??
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6290 ??
                                                                                      unk_0_6291:
unk_0_6292:
                                                                                                                                                                          .ds
                                                                                                                                                                                                                                                                                                                                                                                                                                ; DATA XREF: sub_0_1A33+48↑o
                                                                                                                                                                          .ds
                                                                                                                                                                          .ds
.ds
.ds
                                                                                                                                                                           .ds
.ds
.ds
                                                                                                                                                                          .ds
.ds
.ds
                                                                                                                                                                            .ds
                                                                                                                                                                                                                                                                                                                                                                                                                               ; DATA XREF: 0000:16BC\u00fc\u0000:16D2\u00fc\u0000:16D2\u000c\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u00
                                                                                      unk_0_62A0:
                                                                                                                                                                           .ds
                                                                                     unk 0 62A1:
                                                                                                                                                                          .ds 1
                                                                                                                                                                           .ds
                                                                                                                                                                                                                                                                                                                                                                                                                               ; DATA XREF: sub_0_2523+2E1r
; sub_0_262F1o ...
                                                                                      unk_0_62A3:
                                                                                                                                                                          .ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                               ; DATA XREF: sub_0_2679+7\u00f10
; DATA XREF: sub_0_2523+39\u00f1r
; sub_0_2679+14\u00f10
                                                                                      unk 0 62A5:
                                                                                                                                                                            dя
                                                                                      unk_0_62A6:
                                                                                                                                                                                                                                                                                                                                                                                                                                ; sub_0_26/9+14+0; DATA XREF: sub_0_27DA10
                                                                                      unk 0 62A7:
                                                                                                                                                                           .ds
                                                                                                                                                                          .ds
.ds
.ds
                                                                                       unk_0_62A8:
                                                                                     unk_0_62AA:
                                                                                                                                                                            .ds
                                                                                     unk_0_62AC:
                                                                                                                                                                           .ds
.ds
                                                                                                                                                                            .ds
                                                                                                                                                                                                                                                                                                                                                                                                                                      DATA XREF: display_lUP+53\footnote{Misplay_lUP+98\footnote{Ir} ...
DATA XREF: 0000:063A\footnote{Ir}
0000:0F8E\footnote{Ir} ...
level timer #1
 62AF*??
62AF*
62BO ??
62BO
                                                                                                                                                                           .ds
                                                                                      byte_0_62AF:
                                                                                      unk_0_62B0:
 62B0
62B1 ??
62B1
                                                                                                                                                                                                                                                                                                                                                                                                                                         DATA XREF: sub_0_2C03+9\r
sub_0_2C8F+4B\rangle o ...
                                                                                       unk_0_62B1:
                                                                                                                                                                         .ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                              , sub_0_2c6f+4B|0 ...

| level timer #2

| level timer #3

| level timer #4

| DATA XREF: sub_0_2FCB+3\u00e40

| level timer #5
 62B1
62B2 ??
62B3 ??
62B4 ??
                                                                                      unk_0_62B2:
unk_0_62B3:
unk_0_62B4:
                                                                                                                                                                            ds 1
                                                                                                                                                                          .ds 1
  62B4
62B4
62B5 ??
62B6 ??
62B7 ??
62B8 ??
62B9 ??
62BA ??
                                                                                                                                                                           .ds 1
                                                                                                                                                                          .ds
.ds
                                                                                      unk_0_62B8:
unk_0_62B9:
unk_0_62BA:
                                                                                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: sub_0_3A2+9\u00e10
                                                                                                                                                                            .ds
                                                                                                                                                                                                                                                                                                                                                                                                                               ; DATA XREF: sub_0_3A2+2F<sup>†</sup>o; sub_0_3A2+3E<sup>†</sup>w
                                                                                                                                                                          .ds
  62BA
62BB ??
62BC ??
62BC ??
62BE ??
62BE ??
62C1 ??
62C2 ??
62C3 ??
62C3 ??
62C4 ??
62C5 ??
62C6 ??
62C6 ??
62C8 ??
62C8 ??
62C8 ??
62C9 ??
                                                                                                                                                                          62CE
62CF
62D0
                        62D1
62D2
62D3
62D4
 62D5
62D6
62D7
62D8
  62D9
  62DA
62DB
                        ??
  62DC
  62DD
  62DE
62DF
 62E0 ??
62E1 ??
                                                                                                                                                                            .ds
```

unk_0_6350: unk_0_6351:

.ds

```
unk_0_6352:
                                                               .ds 1
         unk_0_6353:
unk_0_6354:
6353
                                                               .ds
6353
6354
6355
6356
6357
6358
6359
635A
                                                               .ds
.ds
.ds
                                                               .ds
.ds
.ds
.ds
.ds
.ds
635B
635C
635D
635E
635F
6360
6361
6362
         ??
                                                               .ds
.ds
.ds
6362
6364
6365
6366
6367
6368
6369
                                                               .ds
.ds
.ds
         .ds
.ds
.ds
636A
636B
636C
636D
                                                               .ds
.ds
.ds
.ds
.ds
         ??
??
??
??
636E
636F
6370
6371
6372
6373
6374
6375
                                                               .ds
.ds
.ds
         6376
6377
6378
                                                               .ds
.ds
.ds
6379
                                                               .ds
                                                               .ds
                                                               .ds
637D
                                                               .ds
6380
         ??
??
??
??
                                unk 0 6380:
                                                               .ds
                                unk_0_6381:
unk_0_6382:
unk_0_6383:
6381
                                                               dя
                                                                                                                                                         ; DATA XREF: difficulty_timer_tick+7 o
6382
6383
                                                                                                                                                         ; DATA XREF: 0000:02Dl\u00e7o
; DATA XREF: difficulty_timer_tick\u00e7o
; DATA XREF: display_lUP+23\u00e7r
; display_lUP+67\u00f3\u00f3\u00e7o
                                                               .ds
6384
                                unk 0 6384:
                                                               .ds
6385 ??
6385
6386 ??
                                intro_sequencer:.ds
                                unk_0_6386:
                                                              .ds 1
6387 ??
6388 ??
6388
6389 ??
                               unk_0_6387:
unk_0_6388:
                                                               .ds
                                                              .ds
                                                                                                                                                         ; DATA XREF: 0000:161F\r\; 0000:1633\r\ ...
                                unk_0_6389:
                                                               .ds 1
638A ??
638A
638B ??
638C ??
                                                                                                                                                          ; DATA XREF: 0000:07CB1r
                                title_flash_tmr_1:.ds 1
                                title_flash_tmr_2:.ds 1
                               bonus_timer: .ds 1
next_girder_to_deform:.ds 1
638C ??
638D ??
                                                                                                                                                          ; DATA XREF: 0000:0B581w
638D
638E*??
                                                                                                                                                             0000:0B94\r ...
DATA XREF: display_1UP+81\rangle w
                               byte_0_638E: .ds 1
638E*
638F ??
                                                                                                                                                             0000:0B3B|r ...
DATA XREF: sub_0_2C03+4C|w
                               unk_0_638F: .ds 1
638F
6390 ??
                                                                                                                                                             sub_0_2C8F+8D|r ...
DATA XREF: animate_kong_and_pauline+2B|o
                               kong_thrash_tmr:.ds 1
6390
                                                                                                                                                          ; animate_kong_and_pauline+8B1r
6391 ??
6392 ??
6393 ??
                               kong_thrash_flag:.ds 1
unk_0_6392: .ds 1
barrel_deployment:.ds 1
                                                                                                                                                         ; DATA XREF: sub_0_2ED4+4A1r; sub_0_2ED4+7510; DATA XREF: sub_0_2ED4+7C10; sub_0_2ED4+871w...
6394 ??
6394
6395 ??
6395
                                                             .ds 1
                               unk_0_6394:
                               unk_0_6395:
                                                             .ds 1
6395
6396 ??
6397 ??
6398 ??
639A ??
639B ??
639B
                               unk_0_6396:
                                                              .ds 1
                               .ds 1
mario_on_elevator:.ds 1
                                                             .ds 1
                               unk 0 639A:
                                                                                                                                                          ; DATA XREF: sub_0_2523<sup>†</sup> o ; sub_0_2523+65<sup>†</sup> w
                               unk_0_639B:
639C ??
                                                               .ds 1
639D ??
639D
                                                                                                                                                         ; DATA XREF: 0000:127F<sup>†</sup>r
; 0000:1295<sup>†</sup>o ...
; DATA XREF: 0000:129B<sup>†</sup>w
; 0000:12B2<sup>†</sup>o
                               mario_death_state:.ds 1
639E ??
639E
                               unk_0_639E:
                                                             .ds 1
639F ??
63A0 ??
63A0
                                                               .ds 1
                                                                                                                                                         ; DATA XREF: sub_0_3A2+39\dagger w ; 0000:0768\dagger w ...
                               unk_0_63A0:
                               unk_0_63A1:
unk_0_63A2:
unk_0_63A3:
unk_0_63A4:
63A1 ??
63A2 ??
63A3 ??
63A4 ??
                                                              .ds
                                                              .ds
                                                               .ds
63A5 ??
63A6 ??
63A7 ??
63A7
                               unk_0_63A5: .ds 1
unk_0_63A6: .ds 1
height_counter: .ds 1
                                                                                                                                                          ; DATA XREF: 0000:0BFA<sup>†</sup>o
                                                                                                                                                          ; 0000:0C431r ...
63A8 ?? ??
                               disp_loc_for_height_string:.ds 2
63AA ??
63AB*?? ??
                               .ds 1 segment_addr_1: .ds 2
                                                                                                                                                             DATA XREF: draw_level_background+14 w
                                                                                                                                                             draw_level_background+55fr...
DATA XREF: draw_level_background+41fw
draw_level_background+88fr
63AB*
63AD*?? ??
63AD*
63AF*??
63AF*
                               segment_addr_2: .ds 2
                                                                                                                                                             DATA XREF: draw_level_background+201w
draw_level_background+521r...
DATA XREF: draw_level_background+391w
draw_level_background+391r...
DATA XREF: draw_level_background+2C1w
draw_level_background+2C1w
                               start tile index:.ds 1
63B0*??
63B0*
63B1*??
                               end_tile_index: .ds 1
                              dY:
                                                            .ds 1
                                                                                                                                                             draw_level_background+D5fr...
DATA XREF: draw_level_background+33fw
draw_level_background+4Cfr...
63B2*??
63B2*
                               dx:
                                                             .ds 1
                                                                                                                                                             DATA XREF: draw_level_background+1|wdraw_level_background+44|r ...
63B3*??
                               segment_type: .ds 1
63B3*
```

```
63B4*??
63B5*??
63B5*
63B6 ??
63B7 ??
63B8 ??
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DATA XREF: draw_level_background+1A<sup>†</sup>w
DATA XREF: draw_level_background+B5<sup>†</sup>w
                                                                                                                                        tile_byte_1:
                                                                                                                                                                                                                                                                      .ds 1
                                                                                                                                      current_tile_in_segment:.ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; draw_level_background+BB|r ...
                                                                                                                                                                                                                                                                      .ds 1
                                                                                                                                      unk_0_63B7:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; DATA XREF: 0000:0635 r
; 0000:06AC r
                                                                                                                                   unk_0_63B8:
                                                                                                                                                                                                                                                                      .ds
63B8 ??
63B8 63B9 ??
63BA ??
63BC ??
63BD ??
63BE ??
                                                                                                                                      unk_0_63B9:
                                                                                                                                                                                                                                                                      .ds
                                                                                                                                                                                                                                                                      .ds
                                                                                                                                                                                                                                                                         .ds
                                                                                                                                                                                                                                                                       .ds
                                                                                                                                                                                                                                                                       .ds
 63BF ??
63C0*?? ??
63C0*
63C2*?? ??
                                                                                                                                                                                                                                                                         .ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; DATA XREF: display_1UP+AF^w ; 0000:0B64^w ... ; DATA XREF: display_1UP+59^w
                                                                                                                                    ptr_current_sequence:.ds 2
                                                                                                                                   ptr_current_jump_up_data:.ds 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 , DATA XREF: display_10F+59\W ; display_1UP+B8\r ... ; DATA XREF: display_1UP+5F\rangle w ; 0000:0B6D\r ...
63C2**
63C4*?; ??
63C4*?; ??
63C4*?; ??
63C6 ??
63C8 ??
63C8 ??
63C8 ??
63C9 ??
63C1 ??
63C2 ??
63C2 ??
63C2 ??
63C3 ??
63C3 ??
63C4 ??
63C4 ??
63C5 ??
63C6 ??
63C6 ??
63C7 ??
63C7 ??
63C8 ??
63C8 ??
63C9 ??
63C0 ??
63C0 ??
63C0 ?
                                                                                                                                    ptr_current_jump_left_data:.ds 2
                                                                                                                                                                                                                                                                      .ds 1
                                                                                                                                                                                                                                                                      .ds
                                                                                                                                    unk_0_63C8:
                                                                                                                                                                                                                                                                         .ds
                                                                                                                                                                                                                                                                         .ds
                                                                                                                                   .ds 1
attract_movement_entry:.ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: next_attract_action+3 o
                                                                                                                                                                                                                                                                    .ds 1
                                                                                                                                                                                                                                                                      .ds
.ds
.ds
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                                                                                                                                                                                                                                                                      ; DATA XREF: sub_0_31B1+7<sup>†</sup>o
                                                                                                                                   unk 0 63E0:
                                                                                                                                                                                                                                                                      .ds
                                                                                                                                    unk_0_6400:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; DATA XREF: 0000:10E9\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\dagger\
                                                                                                                                                                                                                                                                       .ds
                                                                                                                                                                                                                                                                      .ds
.ds
.ds
                                                                                                                                                                                                                                                                       .ds
                                                                                                                                                                                                                                                                      .ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; DATA XREF: 0000:0FE5\u00f10 o ...
                                                                                                                                    unk_0_6407:
                                                                                                                                                                                                                                                                      .ds
.ds
.ds
                                                                                                                                                                                                                                                                      641D ??
641E ??
641F ??
6420 ??
6421 ??
6422 ??
                                                                                                                                                                                                                                                                         .ds
```

; DATA XREF: init_spring_sprites+3^o

unk_0_6507:

.ds

File: E:\Projects\pace\pacedev.n	et\sw\re
674A ??	.ds 1
674B ??	.ds 1
674C ?? 674D ??	.ds 1
674E ??	.ds 1
674F ?? 6750 ??	.ds 1
6751 ??	.ds 1
6752 ?? 6753 ??	.ds 1
6754 ??	.ds 1
6755 ?? 6756 ??	.ds 1
6757 ??	.ds 1
6758 ?? 6759 ??	.ds 1
675A ??	.ds 1
675B ?? 675C ??	.ds 1
675C ?? 675D ??	.ds 1
675E ??	.ds 1
675F ?? 6760 ??	.ds 1
6761 ??	.ds 1
6762 ?? 6763 ??	.ds 1
6764 ??	.ds 1
6765 ?? 6766 ??	.ds 1
6767 ??	.ds 1
6768 ?? 6769 ??	.ds 1
676A ??	.ds 1
676B ?? 676C ??	.ds 1
676D ??	.ds 1
676E ??	.ds 1
676F ?? 6770 ??	.ds 1
6771 ??	.ds 1
6772 ?? 6773 ??	.ds 1
6774 ??	.ds 1
6775 ?? 6776 ??	.ds 1
6777 ??	.ds 1
6778 ?? 6779 ??	.ds 1
677A ??	.ds 1
677B ??	.ds 1
677C ?? 677D ??	.ds 1
677E ??	.ds 1
677F ?? 6780 ??	.ds 1
6781 ??	.ds 1
6782 ?? 6783 ??	.ds 1
6784 ??	.ds 1
6785 ?? 6786 ??	.ds 1
6787 ??	.ds 1
6788 ?? 6789 ??	.ds 1
678A ??	.ds 1
678B ?? 678C ??	.ds 1
678D ??	.ds 1
678E ?? 678F ??	.ds 1
678F ?? 6790 ??	.ds 1
6791 ??	.ds 1
6792 ?? 6793 ??	.ds 1
6794 ??	.ds 1
6795 ?? 6796 ??	.ds 1
6797 ??	.ds 1
6798 ?? 6799 ??	.ds 1
679A ??	.ds 1
679B ?? 679C ??	.ds 1
679D ??	.ds 1
679E ?? 679F ??	.ds 1
67A0 ??	.ds 1
67A1 ?? 67A2 ??	.ds 1
67A2 ?? 67A3 ??	.ds 1
67A4 ??	.ds 1
67A5 ?? 67A6 ??	.ds 1
67A7 ??	.ds 1
67A8 ?? 67A9 ??	.ds 1
67AA ??	.ds 1
67AB ?? 67AC ??	.ds 1
67AD ??	.ds 1
67AE ?? 67AF ??	.ds 1
67B0 ??	.ds 1
67B1 ??	.ds 1
67B2 ?? 67B3 ??	.ds 1
67B4 ??	.ds 1
67B5 ?? 67B6 ??	.ds 1
67B7 ??	.ds 1
67B8 ?? 67B9 ??	.ds 1
67BA ??	.ds 1
67BB ?? 67BC ??	.ds 1
67BD ??	.ds 1

; DATA XREF: 0000:01E4\dagger w ; 0000:02AF\dagger w ...

; DATA XREF: 0000:02A8\dagger w ; 0000:0779\dagger o ...