```
This file is generated by The Interactive Disassembler (IDA)
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                          ; File Name : E:\Projects\NeoKong\arcade\dkong.bin
; Format : Binary File
; Base Address: 0000h Range: 0000h - 4000h Loaded length: 4000h
                             Processor: z80
Target assembler: ASxxxx by Alan R. Baldwin v1.5
.area idaseg (ABS)
.area idaseg (ABS)
.hd64 ; this is needed only for HD64180
                          ; Segment type: Pure code
; segment 'ROM'
0000
0000 3E 00
0000 3E 00
0000 0002 32 84 7D
0005 C3 66 02
                          RESET:
                                                                                                                              ; CODE XREF: 0000:00B2 | j ; DATA XREF: 0000:0FCD | o
                                                   ld
                                                                (nmi_mask), a
                                                   jр
                                                                TNTT
0008
0008
0008
                                                  SUBROUTINE
0008
0008
0008 3A 07 60
0008
                                                                                                                              ; CODE XREF: flash_1UP_or_2UP+7|p
; add_bonus_and_update_high_score+1|p ...
                          return_if_attract_mode:
                                                   1d
                                                               a. (attract mode flag)
0008
000B 0F
000C D0
000D 33
000E 33
                                                   rrca
ret
                                                                NC
                                                   inc
                                                                sp
                                                                                                                              ; discard return address
                                                   inc
                                                                sp
                          ret
; End of function return_if_attract_mode
000F C9
000F
000F
0010
0010
0010
                                   SUBROUTINE
0010
0010
0010
0010 3A 00 62
0013 0F
0013 0F
0014 D8
0015 33
0016 33
0017 C9
0017
0017
0018
                                                                                                                              ; CODE XREF: sub_0_3A2+3\protect\operatorname{p}; sub_0_2C03+3\protect\operatorname{p} ...
                          return_if_mario_not_alive:
                                                   ld
                                                                a, (mario_alive_flag)
                                                                                                                              ; is mario alive?
                                                   rrca
                                                   ret
inc
inc
                                                                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
0030
                                                  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
```

```
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
                                                                       (controller_in), hl
                                                                                                                                            ; store
                                                         ld
                                                                       a, b
00B0 CB 77
00B2 C2 00 00
00B5
                                                         bit
jp
                                                                                                                                            ; reset input?
                                                                       6, a
NZ, RESET
00B5
                             loc 0 B5:
                                                                                                                                            ; CODE XREF: 0000:008414
00B5 21 1A 60
00B8 35
00B9 CD 57 00
00BC CD 7B 01
00BF CD E0 00
00C2 21 D2 00
                                                         ld
dec
call
                                                                      hl, #gen_purpose_timer
(hl)
                                                                                                                                           ; general purpose timer tick
; randomise
                                                                       rand
                                                         call
call
ld
                                                                       check_coin_inserted
                                                                       update_sounds
                                                                                                                                           ; IRQ resume address
                                                                       hl, #nmi_exit
                                                         push
ld
00C5 E5
                                                                       h1
00C6 3A 05 60
                                                                       a, (nmi_sequencer)
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
00C9 EF
                                                           rst
00C9
00CA C3 01
00CC 3C 07
00CE B2 08
                                                           .dw init_machine_settings
.dw chk_credits_and_vector_on_attrac
.dw vector_on_credit_sequencer
                                                                                                                                                ; Jump table (nmi sequencer)
00D0 FE 06
                                                           .dw vector_on_ingame_sequencer
00D2
00D2
00D2
                                                                                                                                                ; DATA XREF: 0000:00C210
                              nmi_exit:
00D2 FD E1
00D4 DD E1
00D6 E1
00D7 D1
                                                                        iy
ix
hl
de
                                                           qoq
                                                          pop
                                                           pop
00D8 C1
00D9 3E 01
00DB 32 84 7D
00DE F1
                                                           pop
ld
ld
                                                                        bc
a, #1
(nmi_mask), a
                                                                                                                                                ; enable_nmi
                                                          pop
ret
00DE F1
00DF C9
00E0
00E0
                                                          SUBROUTINE
00E0

00E0

00E0

00E0

00E0

00E0 21 80 60

00E3 11 00 7D

00E6 3A 07 60

00E9 A7

00EA C0

00EB 06 08

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

00F6 1C

00F7 2C

00F8 10 F3

00FA 21 8B 60

00FD 7E

00FF A7

00FF C2 08 01

0102 2D

0103 2D

0104 7E

0105 C3 0B 01

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

.dw soft sprite ram

(p8257\_drq), a

a, (h1) (i8257\_io+8), a (hl)

.dw 0x4180

xor ld

ld

1d

dma\_sprite\_data\_to\_hw:

0141

.dw SPRAM\_start .dw 0x8180 SUBROUTINE CHO terminal count (RD 0x180 bytes)

CH1 Address
CH1 terminal count (WR 0x180 bytes)

; CODE XREF: 0000:007D1p

; deassert DRQ0&1 0x53

; mode set

ld ld ld

xor

ld

01FA 11 01FD CD 0200 11 0203 CD

0206 0207 0207 C9

0207

9F 30

call ld call ld

call ld

call

; SUBROUTINE

(nmi\_sequencer), a (level\_type), a

(main\_sequencer), a

(main\_sequencer), a display\_1UP de, #0x304 queue\_fg\_vector\_fn de, #0x202 queue\_fg\_vector\_fn de\_#0x200

queue\_fg\_vector\_fn

; next sequence

; print message A

; game screen sequencer

; display\_score\_or\_high\_score

; display\_score\_or\_high\_score

```
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```
CODE XREF: 0000:01DF<sup>p</sup> read DIPSW
                               read_dips_and_high_score_tbl:
                                                                          a, (dsw_audio_irq)
  0207 3A 80 7D
                                                            ld
  020A 4F
020B 21 20 60
020E E6 03
                                                            ld
ld
and
                                                                                                                                                 ; store
                                                                          hl, #lives_per_game
                                                                                                                                                 ; lives setting
; init no. of lives
; store no. of lives
 020E E6 03
0210 C6 03
0212 77
0213 23
0214 79
0215 0F
0216 0F
0217 E6 03
0219 47
                                                                          a, #3
(hl), a
                                                            add
                                                            ld
inc
ld
                                                                          a, c
                                                                                                                                                 ; DIPSW
                                                            rrca
rrca
and
ld
. £6 03
0219 47
021A 3E 07
021C CA 26 02
021F 3E 05
0221
                                                                                                                                                 ; bonus life setting
                                                                          b, a
                                                                          a, #7
Z, loc_0_226
a, #5
                                                            1d
                                                                                                                                                 ; 7,000?
                                                                                                                                                 ; yes, sl
; 5,000?
 0221
0221 C6 05
0223 27
                               loc_0_221:
                                                                                                                                                 ; CODE XREF: read_dips_and_high_score_tbl+1D|j
                                                            add
                                                                          a, #5
 0223 27
0224 10 FB
0226
0226
0226 77
                                                            daa
                                                            djnz
                                                                          loc 0 221
                                                                                                                                                ; calculate 10/15/20K points
                               loc_0_226:
                                                                                                                                                 ; CODE XREF: read_dips_and_high_score_tbl+15<sup>†</sup>j; bonus_setting
                                                                          (hl), a
                                                            ld
 0226 77
0227 23
0228 79
0229 01 01 01
022C 11 02 01
0231 17
0232 17
0233 17
                                                            inc
                                                                          hl
                                                            ld
ld
                                                                                                                                                 ; DIPSW
; 1C P1
; 1C P2
                                                                          a, c
bc, #0x101
                                                            ld
and
                                                                          de, #0x102
                                                                          #0x70 ; 'p
                                                                                                                                                 ; coinage setting
                                                            rla
rla
                                                            rla
 0233 17
0234 17
0235 CA 47 02
0238 DA 41 02
023B 3C
023C 4F
023D 5A
023E C3 47 02
                                                                                                                                                 ; coinage 0-7; 1C1C; 2-5 coins
                                                            rla
                                                                          Z, loc_0_247
C, loc_0_241
                                                             jp
                                                            jp
                                                                                                                                                 ; no. credits
; C = credits
; D = coins
                                                            inc
                                                            1d
                                                                               d
                                                                          loc_0_247
                                                            jр
 0241
0241
0241 C6 02
0243 47
0244 57
0245 87
0246 5F
0247
0247
0247 72
0247
0248 23
  0241
                                loc_0_241:
                                                                                                                                                 ; CODE XREF: read_dips_and_high_score_tbl+31^j
                                                            add
ld
                                                                          a, #2
b, a
d, a
a, a
                                                                                                                                                 ; no. coins
; B = coins
                                                            ld
add
                                                                                                                                                 ; D = coins
                                                            ld
                                                                          e, a
                                                                                                                                                 ; E = coins x2
                               loc_0_247:
                                                                                                                                                 ; CODE XREF: read_dips_and_high_score_tbl+2Efj
; read_dips_and_high_score_tbl+37fj
                                                                          (hl), d
                                                            ld
  0248 23
0249 73
024A 23
                                                                         hl
(hl), e
                                                            ld
                                                            inc
                                                                          hl
 024B 70
024C 23
024D 71
024E 23
                                                                          (hl), b
                                                            ld
                                                            inc
                                                                          (hl), c
                                                            inc
                                                                          hl
 024F 3A 80 7D
0252 07
0253 3E 01
0255 DA 59 02
                                                            ld
rlca
ld
                                                                          a, (dsw_audio_irq)
                                                                                                                                                ; read DIPSW
; upright?
                                                                         a, #1
C, loc_0_259
a
                                                                                                                                                ; yes, skip
 0255 DA 59 02
0258 3D
0259
0259 77
025A 21 65 35
025D 11 00 61
0260 01 AA 00
0263 ED B0
                                                            jp
dec
                                                                                                                                                 ; CODE XREF: read_dips_and_high_score_tbl+4Efj
                                loc_0_259:
                                                                          (hl), a
hl, #high_score_tbl
de, #high_score_tbl_ram
                                                            ld
                                                                                                                                                 ; store cocktail/upright
                                                            ld
                                                                                                                                                 ; destination in RAM
; length of table
                                                            ld
                                                                                #0xAA;
                                                            ld
                                                                                                                                                 ; length of ta
; copy to ram
                                                            ldir
 0265 C9
0265
0265
                                ret; End of function read_dips_and_high_score_tbl
 0266
0266
0266
0266 06 10
                                INIT:
                                                                                                                                                 ; CODE XREF: 0000:00051j
                                                                          b. #16
                                                            ld
 0268 21 00 60
026B AF
026C
026C
                                                                                                                                                ; start of RAM
; zero byte
                                                            1d
                                                                          hl, #RAM_start
                                                                                                                                                 ; CODE XREF: 0000:0272 - i
                                loc_0_26C:
 026C 4F
026D
026D
                                                            ld
                                                                                                                                                 ; CODE XREF: 0000:0270 j
                               loc 0 26D:
  026D 77
                                                            ld
                                                                          (hl), a
                                                                                                                                                 ; zero memory
 026D 77
026E 23
026F 0D
0270 20 FB
0272 10 F8
0274 06 04
0276 21 00 70
0279
                                                            inc
                                                                                                                                                 ; next location
                                                                                                                                                 ; clear 256 bytes
; clear 4K bytes
                                                                          NZ, loc_0_26D
loc_0_26C
                                                            jr
djnz
                                                            ld
                                                                          b, #4
hl, #SPRAM_start
                                                            ld
                                                                                                                                                 ; start of sprite RAM
 0279
0279 4F
027A
027A
                               loc_0_279:
                                                                                                                                                 ; CODE XREF: 0000:027F-j
                                                            ld
                                                                                                                                                 ; CODE XREF: 0000:027D|j
                                loc 0 27A:
 027A

027A

027B

027B

027C

0D

027D

0D

027D

0D

027F

10 F8

0281

06 04

0283

3E 10

0285

21 00 74

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

028C 0D

028D 20 FB

028F 10 F7

0291 21 C0 60

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

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

0346

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

0350

0350

0350

0350

0350

0350

0350

0355

0354

00

0355

21

83

83

83

00

60

0358

83

00

0358

83

00

0358

83

00

0358

83

00

0358

21

0361

0361

0361

0361

0361

0362

0362

0362

0364

037

0362

0363

0363

0364

0363

0364

0366

0368

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036
                                                                         SUBROUTINE
                                               check_and_award_bonus:
                                                                                                                                                                                                                             ; CODE XREF: 0000:02CATp
                                                                                          ld
and
                                                                                                                a, (awarded_bonus_life)
                                                                                                                                                                                                                              ; already got bonus life?
                                                                                          ret
                                                                                                                NZ
                                                                                                                                                                                                                              ; ves. return
                                                                                          1d
                                                                                                                hl, #p1_score+1
                                                                                          ld
                                                                                                                a, (current_player_D)
                                                                                                                a
Z, loc_0_361
                                                                                                                                                                                                                             ; player 1?
; yes, skip
                                                                                          and
                                                                                          ir
                                                                                          ĭd
                                                                                                                hl, #p2_score+1
                                                                                                                                                                                                                                 CODE XREF: check_and_award_bonus+C^j get hundreds from score only thousands
                                              loc 0 361:
                                                                                                                a, (hl)
#0xF0; '-'
                                                                                          ld
                                                                                          and
ld
                                                                                                                b, a
hl
                                                                                                                                                                                                                                  save
next score byte
                                                                                           inc
0365 23
0366 7E
0367 E6 0F
0369 B0
036A 0F
036B 0F
036C 0F
036C 0F
                                                                                          ld
and
                                                                                                                        (hl)
                                                                                                                                                                                                                                 get tens of thousands
only tens of thousands
B = thousands (and tens of)
                                                                                          or
                                                                                          rrca
                                                                                          rrca
rrca
                                                                                                                                                                                                                             ; swap nibbles
                                                                                          rrca
036D 0F
036E 21 21 60
0371 BE
0372 D8
0373 3E 01
0375 32 2D 62
0378 21 28 62
037B 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
inc
                                                                                                                                                                                                                              ; 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
                                                                                                                                                                                                                              ; get LSB
                                                                                                                                                                                                                                 LSB tick
LSB overflow?
                                                                                          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
                                                                                                                                                                                                                              ; no, return
                                                                                                               hl, #unk_0_6381
a, (hl)
b, a
                     81 63
                                                                                                                                                                                                                              ; get MSB
                                                                                          ld
                                                                                                                 b, a (hl)
                                                                                          inc
and
ret
                                                                                                                                                                                                                             ; MSB tick
                                                                                                                                                                                                                              ; expired?
; no, return
                                                                                                                a, b
                                                                                          1d
                                                                                          rrca
rrca
                                                                                          rrca
                                                                                                               b, a
a, (level)
a, b
0393 47
0394 3A 29 62
0397 80
0398 FE 05
                                                                                          ld
                                                                                          ld
add
                                                                                                                                                                                                                              ; adjust for level
                                                                                          ср
                                                                                                                                                                                                                              ; max?
                                                                                                               C, loc_0_39E
a, #5
039A 38 02
039C 3E 05
039E
039E
                                                                                                                                                                                                                                 no, skip
set to m
                                                                                                                                                                                                                              ; CODE XREF: difficulty_timer_tick+1B<sup>†</sup>j
                                              loc 0 39E:
039E 32 80 63
03A1 C9
03A1
03A1
                                                                                          1d
                                                                                                                (unk_0_6380), a
                                              ret
; End of function difficulty_timer_tick
03A2
03A2
03A2
                                                                                         SUBROUTINE
03A2
03A2
03A2
03A2 3E 03
03A4 F7
03A5 D7
03A6 3A 50 63
03A9 0F
03AA D8
                                               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
             21 29 6A
06 40
                                                                                          ld
                                                                                                                hl, #soft_sprite_ram+0x129
                                                                                                                                                                                                                          ; sprite #173, flipv & code
03BA 21 29 6A
03BA 06 40
03BC DD 21 A0 66
03C0 0F
03C1 D2 E4 03
03C4 DD 36 09 02
03C8 DD 36 0A 02
                                                                                                               b, #<mark>0x40</mark>; '@'
ix, #unk_0_66A0
                                                                                          ld
ld
                                                                                          rrca
                                                                                          jp
ld
ld
                                                                                                               NC, loc_0_3E4
                                                                                                                 9(ix), #2
0xA(ix), #2
 03CC 04
03CD 04
                                                                                          inc
                                                                                                                b
                                                                                                                b
             CD F2 03
21 BA 62
35
                                                                                                                sub_0_3F2
h1, #unk_0_62BA
(h1)
                                                                                          call
 03D4
                                                                                          dec
 03D5 C0
03D6 3E 01
03D8 32 B9 62
                                                                                          ret
                                                                                                                 a, #1
(unk_0_62B9), a
                                                                                          ld
 03DB 32 A0 63
                                                                                          1d
                                                                                                                 (unk 0 63A0), a
 03DE
```

```
; CODE XREF: sub_0_3A2+4D|j
                              loc_0_3DE:
03DE 3E 10
                                                                              #0x10
03E0 32 BA 62
03E3 C9
03E4
                                                           ld
                                                                         (unk_0_62BA), a
03E4
03E4
03E4 DD 36 09 02
03E8 DD 36 0A 00
03EC CD F2 03
03EF C3 DE 03
03EF
03EF
                              loc_0_3E4:
                                                                                                                                                ; CODE XREF: sub_0_3A2+1F j
                              ld 9(ix), #2
ld 0xA(ix), #0
call sub_0_3F2
jp loc_0_3DE
; End of function sub_0_3A2
03F2
03F2
03F2
03F2
                                                         SUBROUTINE
03F2
03F2
03F2 70
03F2 70
03F3 3A 19 60
03F6 0F
03F7 D8
03F8 04
03F9 70
                                                                                                                                                ; CODE XREF: sub_0_3A2+2C<sup>p</sup>;
; sub_0_3A2+4A<sup>p</sup>
                              sub_0_3F2:
                                                           ld
                                                                         (hl), b
                                                           1d
                                                                         a, (random_no+1)
                                                           rrca
ret
                                                           inc
                                                                         b
                                                           1d
                                                                         (hl), b
03FA C9
03FA
03FA
                              ret; End of function sub_0_3F2
03FB
03FB
03FB
03FB
                                                         SUBROUTINE
                              ; CODE XREF: 0000:1980 p
03FB
03FB 3A 27 62
03FE FE 02
0400 C2 13 04
0403 21 08 69
0406 3A A3 63
0409 4F
                                                                              (level_type)
                                                                                                                                                 ; cement pies?
                                                           ср
                                                                                                                                                , telegit ples?
; no, skip
; sprite #2 y coord
; get top conveyer speed/direction
; kong location adjustment
; add +/-1 to y for 10 sprites
; sprite #4, y coord
                                                                         NZ. loc 0 413
                                                           jp
ld
                                                                              , #soft_sprite_ram+8
(unk_0_63A3)
                                                                         hl,
                                                           ld
ld
                                                                         a,
                                                                         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
                                                           Ĭd
                                                                                                                                                ; 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+9Cfj
; blank tiles
                           wipe_help:
04A1 3E 10
04A3
04A3
04A3 21 C4 75
                                                    1d
                                                                  a. #0x10
                                                                                                                                  ; CODE XREF: animate_kong_and_pauline+A3<sup>†</sup>j
; screen position for HELP!
                           display_or_wipe_help:
                                                                  hl, #VRAM start+0x1C4
                                                     ld
04A6 CD 14 05
04A9 3A 05 69
04AC
                                                     call
                                                                 display_3_tiles_HL
a, (soft_sprite_ram+5)
                                                                                                                                  ; display/wipe HELP!
; sprite #1, flipy & code
04AC
04AC 32 05 69
04AC
04AF CB 71
                                                                                                                                  ; CODE XREF: animate kong and pauline+F3 h
                           make_pauline_run:
                                                                                                                                  ; animate_kong_and_pauline+10B ; sprite #1, flipy & code
                                                                  (soft_sprite_ram+5), a
                                                     bit
04B1 C8
                                                     ret
04B2
04B3
                                                     ld
ld
04B4 E6 07
                                                     and
04B4 E6 07
04B6 C0
04B7 78
04B8 EE 03
04BA 32 05 69
04BD C9
                                                     ret
                                                                  NZ.
                                                                 a, b
#3
                                                                                                                                  ; sprite #1, flipy & code
; toggle sprites 0x11/0x12 pauline running
; sprite #1, flipy & code
                                                     ld
                                                     xor
ld
                                                                  (soft_sprite_ram+5), a
                                                     ret
04BE
04BE
                                                                                                                                  ; CODE XREF: animate_kong_and_pauline+97<sup>†</sup>j
                           display_help_rivets_level:
04BE 04BE 3E 10 04C0 21 23 76 04C3 CD 14 05 04C9 CD 14 05 04CC CB 71 04CE CA 09 05 04D1 3A 03 62 04D4 FE 80 04D6 D2 F1 04 04D9 3E DF
04BE
                                                                 a, #0x10
h1, #VRAM_start+0x223
display_3_tiles_HL
h1, #VRAM_start+0x183
                                                    ld
ld
                                                                                                                                  ; blank tiles
; screen pos
                                                     call
                                                     ld
                                                                                                                                  ; screen pos
                                                     call
bit
                                                                  display_3_tiles_HL
                                                                  6, c
Z, loc_0_509
                                                     jp
ld
                                                                       (mario_y)
                                                                 #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
```

; return if attract mode

; 3 bytes of score

051D CF 051E CD 5F 05

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

052C 06 03 052E

0521 79 0522 81 rst call

ld add

add ld

ld ld add and

1d

current\_player\_score\_DE

hl, #bonus\_points\_tbl

a b, #3

```
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                        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\dashj
                                                                                                                        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_at_IX
ix, #VRAM_start+0x121
...... at IX
0570 28 0A
0572 DD 21 21 75
0576 18 04
                                                            display_score_HL_at_IX
                                                jr
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
                                                1d
                                                                                                                       ; screen position for score
057C
057C
057C EB
                                                                                                                      ; CODE XREF: display_player_A_score+5↑j; display_player_A_score+B↑j ...
                         display_score_HL_at_IX:
                                                            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|p; DATA XREF: 0000:0309|o

; 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
                                                                                                                               ; DE = screen address to print
; HL = message text
; screen column address inc value
; DE = text, HL = screen address
05FA 56
05FB 23
05FC 01 E0 FF
05FF EB
                                                   ld
inc
ld
                                                                d, (hl)
                                                                bc, #0xFFE0
                                                    ex
                                                                de, hl
0600
0600
0600 1A
0601 FE
                                                                                                                                  CODE XREF: print_message_A+26|j
                           loc_0_600:
                                                                                                                                  get message character
end of message?
                                                    ld
                                                                a, (de)
#0x3F; '?
       FE 3F
                                                    cp
jp
ld
                                                                                                                                  yes, exit
display character on screen
restore original entry index
0603 CA 26 00
0606 77
0607 F1
                                                                Z, pop_hl_ret(hl), a
                                                                af
NC, loc_0_60C
(hl), #0x10
                                                    pop
0607 F1
0608 30 02
060A 36 10
060C
060C F5
060D 13
060E 09
                                                   jr
ld
                                                                                                                                  not wiping, skip
display space character on screen
                                                                                                                                  CODE XREF: print_message_A+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

1d

call

display\_credits:

0616 0616 0616 0616 3E 05

0618 CD E9 05

NC SUBROUTINE

print\_message\_A

CODE XREF: display\_start\_1P\_2P\_get\_selectio+1B $\mid$ p 0000:141E $\mid$ p ...

"credit"

NZ

Z, loc\_0\_691 a, (bonus\_timer)

NZ, loc\_0\_640 a, b

ix, #0x1D bc, #3

NZ. loc 0 655 a, (bonus\_timer)

ix. de

ix de

#0xF

b, a

a, c

a, b b, a a, #0x10

b, a #0xF

a. b

SUBROUTINE

NZ, bonus\_timer\_tick

a, (bonus\_timer\_expired)

hl, #bonus\_graphic\_tiles de, #VRAM\_start+0x65 a, #6

NZ, display\_bonus\_digits

a, #3 (bg\_music), a a, #0x70; 'p' (VRAM\_start+0x86), a (VRAM\_start+0xA6), a

(VRAM\_start+0xE6), a (VRAM\_start+0xC6), a

a, (bonus\_timer)

a, (bonus\_timer\_init\_value)
bc, #0xA

jр ; End of function display\_credits

> jp ld and jp ld

> and

ret ld

ld

sub jp ld rlca

rlca rlca rlca rlca ld ld

ld

1d ld ldir

add push pop dec

jp ld

ld

and ld

1d

jp ld ld ld ld ld

add

ld ld

ld ld

ld

ld ld

and

push call

pop ld

rrca rrca rrca

display\_bonus\_digits:

loc\_0\_691:

rrca rrca rrca and

display\_bonus\_timer:

update\_bonus\_timer:

loc\_0\_640:

loc 0 655:

062A 062A 7 062B A 7 062B CA 91 06 062E 3A 8C 63 0631 A7 0632 C2 A8 06 0635 3A B8 63

0639 C0 063A 3A B0 62 063D 01 0A 00

0640

0655 DD 21 1D 00 0659 01 03 00 065C ED B0

065E DD 19 065E DD 19 0660 DD E5 0662 D1 0663 3D 0664 C2 55 06 0667 3A 8C 63 066A

066A

066A 4F

066B E6 OF 066D 47 066E 79

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

0689 0689 32 E6 74 068C 78 068D 32 C6 74

0691 0691 3A 8C 63 0694 47 0695 E6 0F

0695 E6 OF 0697 C5 0698 CD 1C 05 0698 C1 069C 78 069D OF 069E OF

06A0 OF

06B8 06B8 06B8 4F

06C2 36 10

06C4 19

06B8

06B8

0690 C9 0691 0691

```
; column address delta
                                                      ; screen position of credits
; 1=2 digits
                                                      ; DATA XREF: 0000:0311†o
                                                      ; add bonus to score?
; yes, skip
                                                      ; no, skip
                                                      ; expired?
                                                      ; yes, exit
; initialise bonus timer here
                                                      ; CODE XREF: 0000:0642-i
                                                      ; set initial bonus timer value
                                                      ; screen position for bonus
; 6 columns of tiles to display
                                                      ; CODE XREF: 0000:0664 j
                                                      ; column inc
; 3 tiles to display
; display bonus tiles
; next column
                                                      ; screen position
                                                      ; done?
; no, loop
                                                      ; CODE XREF: 0000:06B5-1
                                                      ; B=low nibble
                                                      ; C=high nibble
; skip if more than 9s left
                                                        purple '0'
                                                        2nd digit to 'ascii'
                                                         store
<space>
                                                      ; CODE XREF: 0000:0675 j
                                                      ; display 1st digit
; restore 2nd digit
; display 2nd digit
                                                      ; CODE XREF: 0000:062B11
add_bonus_and_update_high_score
```

```
rrca
and
add
06A1 E6 OF
06A3 C6 OA
06A5 C3 1C O5
06A8
                                                                  add bonus and update high score
                                                     jр
06A8
06A8
06A8 D6 01
                                                                                                                                   ; CODE XREF: 0000:0632<sup>†</sup>j
                           bonus_timer_tick:
                                                     sub
06AA 20 05
06AC 21 B8 63
06AF 36 01
06B1
                                                                  NZ, loc_0_6B1
hl, #bonus_timer_expired
(hl), #1
                                                     jr
ld
                                                     ld
06B1
06B1 27
06B2 32 8C 63
06B5 C3 6A 06
                           loc_0_6B1:
                                                                                                                                   ; CODE XREF: 0000:06AA11
                                                     daa
                                                                   (bonus_timer),
                                                     ld
                                                                  display_bonus_timer
                                                     jр
06B8
06B8
06B8
```

```
CODE XREF: 0000:01DC<sup>†</sup>p check_and_award_bonus+2C<sup>†</sup>j
                         display_lives_and_level:
                                                                                                                              DATA XREF: ...
store alive flag
                                                              c, a
8
b, #6
                                                  ld
06B8
06B9 CF
06BA 06 06
06BC 11 E0 FF
06BF 21 83 77
06C2
06C2
                                                  rst
ld
                                                                                                                              return if attract mode
                                                              de, #0xFFE0
                                                                                                                           ; column delta
                                                  ld
                                                  ld
                                                              hl, \#VRAM\_start+0x383
                                                                                                                           ; CODE XREF: display_lives_and_level+D|j
                         loc_0_6C2:
                                                              (hl), \#0x10 hl, de
                                                  1d
                                                                                                                              <space>
                                                                                                                           ; next column
                                                  add
```

```
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
0763 E7
0764 AF
0765 32 92 63
"68 32 A0 63
"3E 01
"2 27 6f
29 6
                                                                       ret
                                                                                                                                                                       ; DATA XREF: 0000:074A\u00e1o
; wait for 16-bit countdown
                                       init_attract_mode_and_draw_level:
                                                                      rst
                                                                                      0x20
                                                                       xor
                                                                       ld
ld
                                                                                       (unk_0_6392), a
(unk_0_63A0), a
                                                                                      a, #1
(level_type), a
              3E 01
32 27 62
32 29 62
32 28 62
                                                                       ld
                                                                       ld
     0770 32 29 62
0773 32 28 62
0776 C3 92 0C
                                                                       ld
ld
                                                                                        (level), a
(lives_left),
                                                                       jр
                                                                                       init and draw level
                                                                                                                                                                       ; DATA XREF: 0000:074810
                                      insert_coin_screen:
     0779 21 86 7D
                                                                                      hl, #palette_bank
(hl), #0
                                                                       1d
     077C 36 00
```

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

083B

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

085C 23

085D 10 FC

085F 0D

0860 C2 57 08

0863 21 00 69

0866 0E 02

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

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 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^j
                            loc_0_8E4:
                                                                  a, (gen_purpose_timer)
#7
                                                     ld
                                                     and
                                                     jp
ld
                                                                  NZ, loc_0_8F3
                                                                                                                                  ; message 9/10
; display
                                                                  print_message_A
                                                     call
08F0 CD 16 06
08F3
08F3
08F3 3A 00 7D
                                                     call
                                                                  display_credits
                           loc_0_8F3:
                                                                                                                                   ; CODE XREF: display_start_1P_2P_get_selectio+14^j
                                                     ld
                                                                  a, (in2_snd_latch)
                                                                                                                                   ; read IN2
08F6 A0
08F7 C9
08F7
08F7
                                                                                                                                   ; only START1/START2
                                                     and
                                                     ret
                            ; End of function display_start_1P_2P_get_selectio
08F8
08F8
08F8
08F8 CD D5 08 08F8 FE 04 08FB FE 04 08FD CA 06 09 0900 FE 08 0900 CA 19 09 0906 CD 77 09 0909 21 48 60 0900 CB AF
                                                                                                                                  ; DATA XREF: 0000:08B81o
                           process 1P 2P start:
                                                     call
                                                                  display_start_1P_2P_get_selectio
                                                                  #4
Z, start_1_selected
                                                                                                                                   ; START1?
; yes, skip
; START2?
                                                     ср
                                                     jр
                                                     cp
jp
ret
                                                                  Z, start_2_selected
                                                                                                                                   ; yes, skip
                           start_1_selected:
                                                                                                                                  ; CODE XREF: 0000:08FD1 i
                                                     call
                                                                  dec_credits_and_display
                                                     ld
                                                                  hl, #p2_ingame_data
b, #8
090C 06
090E AF
090F
090F
                                                     1d
                                                                                                                                  ; CODE XREF: 0000:0911 j
loc_0_90F:
                                                     1d
                                                                  (hl), a
                                                     djnz
                                                                  loc_0_90F
                                                     ld
                                                                        #0
                                                     jp
                                                                  start_game
                                                                                                                                  ; CODE XREF: 0000:09021j
                           start_2_selected:
                                                                 dec_credits_and_display
dec_credits_and_display
de, #p2_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
```

; DATA XREF: 0000:0927†o ; 0000:0946†o

; CODE XREF: 0000:078B1p

; 0000:08CB1p

; next msg

; Start of game level init data

; display\_credits\_if\_attract\_mode

; print\_message\_14 (1st high score)
; 1-5 and "RANK SCORE NAME"

; CODE XREF: queue\_hs\_table\_for\_display+F|j

ld

ld ret

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

game\_init\_data: .db 1

queue hs table for display:

loc\_0\_970:

call

call

1d ld

095D 095D 095E 01

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

095E

0965 0965 0965 a, #3 (nmi\_sequencer), a

de, #0x400 queue\_fg\_vector\_fn de, #0x314 b, #6

queue\_fg\_vector\_fn

```
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```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 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†p ..
                                                                       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
```

; player\_current\_data
; 8 bytes to copy

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

; next sequence (4)

ld

ld ld ldir

ld ld

ld ld

ld ld

0A1B 0A1B hl, (seq\_data)
a, (hl)

a, (n1)
(level\_type), a
a, #0x78; 'x'

(main\_sequencer), a

a, #0x78; 'x'
(eight\_bit\_countdown), a

```
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```

```
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 AF 0A8B 32 86 7D 0A8E 3C 80 7D 0A9E 32 87 7D 0A92 11 0D 38 0A95 CD A7 0 0A9A 32 A3 76 0A9A 32 A4 75 0AAA AF
0A8A
                               draw climb screen:
                                                             ld
                                                                            (palette_bank), a
                                                                           (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, (
#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 29/12/2013, 1:02:59 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
                                                                              de, #0xFFFC
hl, de
(disp_loc_for_height_string), hl
                                                                                                                                                          ; offset for next string ; display location for next string
                                                               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
                                                                               (bonus_timer), a
                                                                                                                                                          ; init bonus timer
; update_bonus_timer (tick)
                                                                              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
ODO0
                                                                                                                                                          ; CODE XREF: 0000:0CB311
                                draw_elevator_level:
                                                               call
ld
                                                                              draw_2_elevator_cables
                                                                              a, #0xA
(bg_music), a
de, #elevator_level_tilemap_data
draw_level_tilemap
                                                               ld
                                                               ld
                                                               jр
                                                               SUBROUTINE
0D00
0D00
0D00
0D00
0D00
0D00 06 08
0D02 21 17 0D
0D05
0D05
                                                                                                                                                          ; CODE XREF: 0000:0CCE<sup>†</sup>p; 8 rivets
                                draw_8_rivets:
                                                                              b, #8
hl, #rivet_loc_tbl
                                                               ld
                                draw_rivet:
                                                                                                                                                          ; CODE XREF: draw_8_rivets+14|j
0D05 3E B8
0D07 0E 02
0D09 5E
0D0A 23
                                                                             a, #0xB8 ; '©'
c, #2
e, (h1)
h1
                                                               1d
                                                                                                                                                          ; top of rivet tile
; 2 tiles/rivet (vertical)
                                                               ld
ld
                                                               inc
                                                                             d, (hl)
0D0A 23
0D0B 56
0D0C 23
0D0D
                                                               ld
                                                                                                                                                           ; get VRAM location
                                                                                                                                                           ; CODE XREF: draw_8_rivets+11|j
0D0D
                                loc 0 D0D:
0D0D 12
0D0E 3D
0D0F 13
                                                              ld
dec
inc
dec
                                                                                                                                                           ; draw rivet tile
; next rivet tile
; next VRAM location
                                                                              (de), a
                                                                              de
```

NZ, loc\_0\_D0D draw\_rivet

.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

done a rivet?

no, loop loop through 8 rivets

; DATA XREF: draw\_8\_rivets+2<sup>†</sup>o ; Rivets level, location of rivets

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

```
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```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 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

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, #4 bc, #0x210

(de)

#0xAA ;

(segment\_type), a

#soft sprite ram

add\_c\_sprite\_register\_xB bc, #0x2F8 hl, #soft\_sprite\_ram+3

add\_c\_sprite\_register\_xB

; sprite #0 (Pauline), y coord

; sprite #0 (Pauline), x coord

CODE XREF: display\_1UP+42 p

0000:0B4B1p ...

get flag store for later done?

yes, return next table address

```
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```

```
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
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)
```

```
full girder?
                                                                                                                                        ; yes, skip
; get matching bottom piece
; display it
                                                                                                                                       ; CODE XREF: draw_level_background+C3fj
; draw_level_background+CBfj
0E78 01 1F 00
0E78
0E7B 09
                                                                    bc, #0x1F
hl, bc
                                                       add
                                                                                                                                        ; next column
        3A B1 63
                                                                         (dY)
                                                       ld
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
                                                                     a,
#8
                                                       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
OEBB 32 B5 63
OEBE FE F8
OECO C2 C9 OE
OEC3 23
OEC4 3E F0
OEC6 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
0ECF
0ED0 C3 A7 0D
                                                                     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<sup>†</sup> 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
                                                                     P, next_segment #4
                                                       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
                                                      1d
                                                                   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<sup>†</sup>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, #40
#81
                                                      add
0F88 FE 51
0F8A 38 02
0F8C 3E 50
                                                      cp
jr
ld
                                                                                                                                    ; max?
                                                                   C, loc_0_F8E
a, #0x50; 'P
                                                                                                                                    ; no, skip
; max out at 50(00) (BCD)
OF8E
0F8E

0F8E

0F8E 21 B0 62

0F91 06 03

0F93

0F93 77

0F94 2C

0F95 10 FC
                           loc_0_F8E:
                                                                  hl, #bonus_timer_init_value
b, #3
                                                                                                                                    ; CODE XREF: 0000:0F8A1i
                                                     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
0F95 10 FC
0F97 87
0F98 47
0F99 3E DC
                                                     djnz
add
ld
                                                                   loc_0_F93
                                                                   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
OFCD 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 29/12/2013, 1:02:59 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
                               ; 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
  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
                                                                                                                                              ; 0000:1073<sup>†</sup>p ...
; 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 29/12/2013, 1:02:59 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\uparrowp; 0000:100F\uparrowp ...
                              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
                                                          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
                                                                        (hl), c
```

7(ix), #0x80; 'Ç' (h1), #0x80; 'Ç'

8(ix), #2

(hl), #2

ld inc ld

1d

125B DD 36 07 80

80 1261 2C 1262 DD 36 08 02

125F

1266 36 02 1268 2C

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 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
                                                                    ld
ld
inc
   126C 70
126D DD 36 0F 01
1271 21 0A 60
1274 34
1275 11 01 06
                                                                                                                                                                    ; next sequence (3)
; display_lives_and_level
                                                                     1d
   1278 CD 9F 30
                                                                     call
                                                                                    queue_fg_vector_fn
   1278 CD
127B C9
127C
127C
   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
                                                                                                                                                                    ; Jump Table
                                                                     .dw delay before spin
   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
                                                                                   14
                                                                     ld
                                                                                                                                                                    ; next death_state
                                                                     inc
ld
   129B 32 9E 63
129E 3E 08
12AO 32 09 60
12A3 CD BD 30
                                                                    ld
ld
ld
                                                                                     a, #8
(eight_bit_countdown), a
                                                                     call
                                                                                    hide_object_sprites
   12A6 3E 03
12A8 32 88 60
12AB C9
                                                                                    a, #3
(music_something), a
                                                                     ld
                                                                     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
                                                                                    a, #8
(eight_bit_countdown), a
hl, #death_spin_counter
(hl)
                                                                     ld
                                                                     ld
ld
  12B5 35

12B6 CA CB 12

12B9 21 4D 69

12BC 7E

12BD 1F

12BE 3E 02

12C0 1F

12C1 47
                                                                     dec
                                                                                   Z, finish_death_spin
hl, #soft_sprite_ram+0x4D
a, (hl)
                                                                     jp
ld
ld
                                                                                                                                                                    ; sprite #19 (mario)
; get flipy & code
; lsb to C
; sprite #1 <<1
; lsb to flipy</pre>
                                                                     rra
                                                                    ld
rra
ld
                                                                                    a, #2
                                                                                    b, a
   12C2 AE
12C3 77
12C4 2C
12C5 78
                                                                     xor
ld
                                                                                     (h1)
                                                                                     (hl), a
                                                                                                                                                                   ; invert tile & flipy
; flipx & colour
                                                                     inc
ld
                                                                                    l
a, b
   12C6 E6 80
12C8 AE
12C9 77
                                                                    and
xor
ld
                                                                                     #0x80 ; 'C'
                                                                                                                                                                    ; flipy only
   12C8 AE
12C9 77
12CA C9
                                                                                    (hl)
(hl), a
                                                                                                                                                                    ; invert flip
                                                                     ret
   12CB
                                                                                                                                                                       CODE XREF: 0000:12B6†j
                                     finish_death_spin:
   12CB 21 4D 69
12CE 3E F4
12D0 CB 16
12D2 1F
12D3 77
                                                                                    hl, #soft_sprite_ram+0x4D
a, #0xF4; '¶'
                                                                                                                                                                    ; sprite #19 (mario)
; mario dead sprite <<1
; flipy to C
; restore flipy
                                                                     ld
                                                                     14
                                                                                    (hl)
                                                                     rl
                                                                     rra
  12DZ 1F
12D3 77
12D4 21 9D 63
12D7 34
12D8 3E 80
12DA 32 09 60
                                                                                    (hl), a
hl, #mario_death_state
(hl)
                                                                     ld
                                                                                                                                                                    ; update sprite
                                                                    ld
inc
                                                                                                                                                                    ; next state
                                                                                    (nı)
a, #0x80 ; 'Ç'
   12DA 32
12DD C9
12DE
12DE
                                                                     1d
                                                                                    (eight_bit_countdown), a
  12DE
12DE DF
12DE DF
12DF CD DB 30
12E2 21 0A 60
12E8 A7
12E9 CA ED 12
12EC 34
12ED
12ED 34
12ED 34
12EE 38
12EF 36 01
                                    ; DATA XREF: 0000:1287 o ; 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
                                                                                    (h1)
.∠ED 34
12EE 2B
12EF 36 01
12F1 C9
12F2
12F2
12°
                                     loc_0_12ED:
                                                                                                                                                                    ; CODE XREF: 0000:12E9<sup>†</sup>j
                                                                                     (hl)
                                                                                                                                                                    ; eight bit countdown
                                                                     ld
                                                                                     (hl), #1
   12F2
12F2
12F2 CD 1C 01
12F5 AF
                                     save_P1_ingame_data:
                                                                                                                                                                   ; DATA XREF: 0000:071E o
                                                                    call
                                                                                    stop_sound
  12F5 AF

12F6 32 2C 62

12F9 21 28 62

12FC 35

12FD 7E

12FE 11 40 60

1301 01 08 00

1304 ED BO
                                                                     xor
                                                                     1d
                                                                                      (seen_intro)
                                                                                   (seen_intro), a
hl, #lives_left
(h1)
a, (h1)
de, #pl_ingame_data
bc, #8
                                                                     dec
ld
                                                                    ld
ld
                                                                                                                                                                    ; 8 bytes to copy
                                                                     ldir
   1306 A7
1307
                                                                                                                                                                    ; mario alive?
                                                                     and
                                                                                    а
                                     loc_0_1307:
                                                                                                                                                                    ; yes, skip
  1307
1307 C2 34 13
130A 3E 01
130C 21 B2 60
130F CD CA 13
1312 21 D4 76
1315 3A 0F 60
1318 A7
1319 28 07
131B 11 02 03
131E CD 9F 30
                                                                     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
```

ld and jr

ĺα

call

131E CD 9F 30

a Z, loc\_0\_1322

de. #0x302queue\_fg\_vector\_fn ; flag Pl score

; display\_message\_02 "PLAYER (I)"

; 2 players?

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 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 "GAME OVER"
                                                              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
                                                                                                                                                        ; two players?
133A CA 3F 13
133D 0E 17
133F
133F
                                                                             Z, loc_0_133F
c, #0x17
                                                              jp
ld
                                                                                                                                                                   skip
                                                                                                                                                        ; next sequence (23)
                                                                                                                                                        ; CODE XREF: 0000:133A<sup>†</sup> i
                                loc_0_133F:
133F 79
1340 32 0A 60
1343 C9
1344
                                                              ld
                                                                             a, c
(main_sequencer), a
                                                              ld
                                                              ret
 1344
1344
1344 CD 1C 01
1347 AF
                                                                                                                                                       ; DATA XREF: 0000:0720 o
                                 save_P2_ingame_data:
                                                                             stop_sound
                                                              call
1344 CD 1C 01
1347 AF
1348 32 2C 62
1348 21 28 62
134F 7E
1350 11 48 60
1353 01 08 00
1356 ED B0
                                                              xor
                                                                            a (seen_intro), a hl, #lives_left (hl) a, (hl) de, #p2_ingame_data bc, #8
                                                              ld
ld
                                                              dec
ld
ld
ld
                                                                                                                                                        ; 8 bytes to copy
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
                                                                                                                                                       ; mario alive?
; yes, skip
                                                                             NZ, loc_0_137F
a, #3
hl, #p2_score
                                                              ld
                                                                             sub_0_13CA
de, #0x303
                                                              call
ld
call
ld
                                                                                                                                                        ; flag P2 score
; display_message_03 "PLAYER (II)"
                                                                             queue_fg_vector_fn de, #0x300
                                                                                                                                                        ; display_message_00 "GAME OVER"
                                                              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 OE 08
138A
138A
                                                                                                                                                        ; mario alive P1?
                                                              and
                                                              jp
ld
                                                                             NZ, loc_0_138A
                                                                                                                                                        ; yes, skip
; next sequence (8)
                                                                                                                                                        ; CODE XREF: 0000:1385<sup>†</sup>j
                                loc 0 138A:
138A 79
138B 32 0A 60
138E C9
                                                              ld
                                                              ld
ret
                                                                             (main_sequencer), a
 138F
138F
 138F
138F DF
                                                                                                                                                        ; DATA XREF: 0000:0722\daggero ; wait for 8-bit countdown; set to switch players?
                                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:
                                                                                                                                                        ; adjust countdown
; mario alive P2?
                                                              inc
and
                                                                             (h1)
1396 A7
1397 C2 9C 13
139A OE 14
                                                                             NZ, loc_0_139C
c, #0x14
                                                                                                                                                        ; yes, skip
; next sequence (20)
                                                              jp
ld
139C
139C
139C
139D
                                 loc_0_139C:
                                                                                                                                                        ; CODE XREF: 0000:1397<sup>†</sup>j
         79
32 OA 60
                                                              ld
139D 32 0A 60
13A0 C9
13A1
13A1
13A1
13A1 DF
13A2 0E 17
13A4 3A 40 60
13A7 C3 95 13
                                                                             (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
                                                              1d
                                                                             a, (upright)
(flipscreen), a
                                                              ld
                                                              xor
                                                                             (main_sequencer), a
                                                                                                                                                        ; reset ingame seguencer
                                                              ld
                                                              ld
                                                                             (current_player_D), hl
                                                                                                                                                        ; both current player flags to P2
                                                              ret
 13BB
```

set\_flip\_and\_current\_P1:

sub\_0\_13CA:

13C0 32 13C9 C9 13CA 13CA 13CA

13CA 11 C6 61

xor ld

ld ld

inc ld

ret

1d

(current\_player\_D), a (current\_player\_E), a (main\_sequencer), a

(flipscreen), a

de, #unk\_0\_61C6

SUBROUTINE

; DATA XREF: 0000:0728 o

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

; CODE XREF: 0000:130F<sup>p</sup>; 0000:1361<sup>p</sup>

; player 1

```
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```

```
13CD 12
                                                         ld
                                                                        (de), a
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
                                                                       a, (de)
13DB 1A
13DC 0F
13DD 0F
                                                         ld
rrca
                                                         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
                                                         ld
                                                                        (hl), #0x10
                                                         inc
                                                                        loc_0_13ED
                                                         dinz
                                                         ld
ld
ld
                                                                       (h1), #0x3F; '?'
b, #5
h1, #hs_tbl_5th+0x1D
                                                                       de, #unk_0_61C7
                                                         1d
                             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
ret
                                                         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
                                                                       a, (de)
(hl), a
                                                         ld
                                                                       a, c
(de), a
                                                         ld
dec
                                                                       hl
                                                                       loc_0_140A
                                                         djnz
                                                         ld
add
ex
add
                                                                       bc, #0xFFF5
hl, bc
de, hl
                                                                       hl, bc
                                                         ex
                                                                       de, hl
                                                         pop
djnz
ret
                              ; End of function sub_0_13CA
                              draw_name_registered:
                                                                                                                                            ; DATA XREF: 0000:072A10
                                                         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 1
; player 1
                                                         ld
                                                                        (current_player_D)
                                                                       hl, #high_score_tbl_ram+0x1C
de, #0x22; '"'
b, #5
                                                         ld
                                                         ld
ld
                                                                                                                                            ; 5 scores to check
; flag for P1 high score
                                                         ld
                                                                       a. #1
                                                                                                                                            ; CODE XREF: 0000:143C|j; P1 high score?; yes, skip
                              loc_0_1437:
                                                                        (h1)
                                                         ср
                                                         jp
add
djnz
                                                                       (nr),
Z, display_name_registration_msgs
hl, de
loc_0_1437
                                                                       hl, #high_score_tbl_ram+0x1C
b, #5
                                                         ld
ld
                                                                                                                                             ; 5 scores to check
; flag for P2 high score
                                                         ld
                                                                            #3
                              loc_0_1445:
                                                                                                                                                CODE XREF: 0000:144A|j
1445 BE
1446 CA 4F 14
1449 19
144A 10 F9
                                                         cp
jp
add
                                                                                                                                               high score?
yes, skip
next score
                                                                        (h1)
                                                                       Z, registration_set_P2
hl, de
loc_0_1445
                                                         dinz
                                                                                                                                             ; loop through table
144C C3 75 14
144F
144F
144F
                                                                        exit name entry
                                                                                                                                             ; CODE XREF: 0000:1446<sup>†</sup> i
                              registration set P2:
144F
144F
144F
3E
01
1451
32
0E
60
1454
32
0D
60
1457
3E
00
1459
1459
1459
21
26
60
145C
B6
                                                         1d
                                                                        (current_player_E), a
                                                                                                                                            ; player 2
; player 2
                                                         ld
                                                                        (current player D), a
                                                         ld
                                                                       a, #0
                                                                                                                                            ; CODE XREF: 0000:1438 j
                              display_name_registration_msgs:
                                                                       hl, #upright (hl)
                                                         ld
                                                         or
        B6
32 82 7D
3E 00
32 09 60
21 0A 60
34
11 0D 03
145D
1460
                                                         ld
ld
                                                                        (flipscreen), a
1462
1465
1468
1469
                                                                        (eight_bit_countdown), a
                                                         ld
                                                         ld
inc
ld
                                                                       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 3E 01
1477 32 82 7D
1470 32 07 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
                                                               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: 0000:072C10
                                                                              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
                                                                                                                                                          ; set palette 0
                                                               ld
ld
                                                               ld
inc
                                                                               (hl), #0
                                                               ld
                                                               inc
ld
                                                                              hl (hl), #0x10
14A4 23
14A5 36 1E
14A7 23
14A8 36 3E
                                                               inc
ld
                                                                               (hl), #30
                                                                                                                                                          ; regi_seconds_cntr
                                                               inc
ld
                                                                              hl
(hl), #62
                                                                                                                                                          ; regi vblank cntr
14A8 36 3E
14AA 23
14AB 36 00
14AD 21 E8 75
14BO 22 36 60
14B3 21 1C 61
14B6 3A 0E 60
14B9 07
                                                                              hl (hl), #0 hl, #VRAM_start+0x1E8
                                                               ld
ld
                                                                                                                                                           ; regi_current_char
                                                                              (regi_entry_cursor_loc), hl
hl, #high_score_tbl_ram+0x1C
a, (current_player_E)
                                                                                                                                                           ; init cursor loc for 1st character
                                                               ld
                                                               ld
ld
                                                                                                                                                           ; 0/1
; 0/2
; 1/3
                                                               rlca
14BA 3C
14BB 4F
14BC 11 22 00
14BF 06 04
                                                                                                                                                           ; P1/P2 high score flag
; score offset
; 4 scores to check
                                                               ld
ld
                                                                              c, a
de, #0x22; '"'
b, #4
                                                               ld
14C1
14C1
14C1
                                 loc_0_14C1:
                                                                                                                                                           ; CODE XREF: 0000:14C7|j
                                                               ld
                                                                              a, (hl)
                                                                                                                                                              get flag
P1/P2 high score?
14C1 7E
14C2 B9
14C3 CA C9 14
14C6 19
14C7 10 F8
14C9
14C9
14C9 22 38 60
14CC 11 F3 FF
                                                               cp
jp
add
                                                                              Z, loc_0_14C9
                                                                                                                                                           ; yes, skip
; next entry
                                                                              hl, de
loc_0_14C1
                                                              djnz
                                loc_0_14C9:
                                                                                                                                                          ; CODE XREF: 0000:14C3<sup>†</sup>j; point to high score entry
                                                                              (regi_ptr_hs_entry_flag), hl
de, #0xFFF3
hl, de
                                                               ld
14CC 11 F3 FF
14CF 19
14D0 22 3A 60
14D3 06 00
14D3 35 60
14D8 4F
14D9 CD FA 15
14DC
14DC
14DC
14DC 21 34 60
14DF 35
14E0 C2 FC 14
14E3 36 3E
                                                               add
                                                                                                                                                           ; offset for name
; store ptr to name
                                                                              in, ue
(regi_ptr_hs_entry_name), hl
b, #0
a, (regi_current_char)
c, a
                                                               ld
ld
                                                               ld
                                                               ld
                                                               call
                                                                              outline_letter
                                                                                                                                                           ; high score initial select sprite
                                loc 0 14DC:
                                                                                                                                                           ; CODE XREF: 0000:148E^j
                                                                              hl, #regi_vblank_cntr
(hl)
                                                               ld
                                                               dec
jp
ld
                                                                                                                                                           ; done another second?
                                                                              NZ, regi_read_controller_input
(hl), #62
                                                                                                                                                          ; no, skip
; reset to roughly 1s
; regi_second_cntr
; out of time?
; yes, skip
14E3 36 3E
14E5 2B
14E6 35
14E7 CA C6 15
                                                               dec
dec
                                                                              (hl)
Z, regi_save_hs_name
                                                               jp
ld
14EA 7E
14EB 06 FF
14ED
14ED
                                                                                   (h1)
                                                                                                                                                           ; seconds left
                                                                              b, #0xFF
                                                                                                                                                          ; CODE XREF: 0000:14F0|j
                                reg show seconds left:
14ED 04
14ED 04
14ED 06 0A
14F0 D2 ED 14
14F3 C6 0A
14F5 32 52 75
14F8 78
14F9 32 72 75
14FC
                                                                              #0xA
NC, reg_show_seconds_left
                                                               sub
                                                                                                                                                          ; divide by 10
; fix last subtraction (units)
                                                               jр
                                                               add
                                                               ld
                                                                               (VRAM_start+0x152), a
                                                                                                                                                           ; units digit (time left)
                                                                              a, b
(VRAM_start+0x172), a
                                                                                                                                                           ; tens digit (time left)
                                                               ld
                                regi_read_controller_input:

1d hl, #unk_0_6030
14FC
14FC
14FC 21 30 60
14FF 46
1500 36 0A
1502 3A 10 60
1505 CB 7F
1507 C2 46 15
                                                                                                                                                           ; CODE XREF: 0000:14E0<sup>†</sup>j; (not used???)
                                                               ld
ld
                                                                              b, (hl) (hl), #0xA
                                                                              a, (controller_in)
                                                               ld
bit
                                                                                                                                                              edge-detected inputs
                                                                                                                                                           ; button pressed?
; yes, skip
; left/right only
                                                               jp
and
jp
inc
ld
                                                                              NZ, regi_jump_pressed
150A E6 03
150C C2 14 15
150F 3C
1510 77
                                                                              NZ, regi_left_right_pressed
                                                                              a
(h1), a
loc_0_158A
1510 77
1511 C3 8A 15
1514
1514
                                                               jр
                                                                                                                                                          ; CODE XREF: 0000:150C1i
1514
                                 regi left right pressed:
1514 05
1515 CA 1D 15
1518 78
1519 77
                                                                jp
ld
                                                                               Z, loc_0_151D
                                                                              a, b
(hl),
                                                               ld
151A C3 8A 15
151D
                                                                               loc_0_158A
151D
                                loc_0_151D:
                                                                                                                                                           ; CODE XREF: 0000:1515<sup>†</sup> i
151D
151D CB 4F
151F C2 39 15
1522 3A 35 60
1525 3C
                                                               bit
                                                                                                                                                           ; left?
; yes, skip
                                                                              1, a
NZ, regi_previous_character
                                                               jp
ld
1522
1525
1526
                                                                              a, (regi_current_char)
                                                               inc
                                                                                                                                                           ; next character
; last character?
; no, skip
; set to 1st character
1525 3C
1526 FE 1E
1528 C2 2D 15
152B 3E 00
                                                                               #0x1E
                                                                              NZ, loc_0_152D
a, #0
                                                               jp
ld
```

```
CODE XREF: 0000:1528<sup>†</sup>j
0000:153E<sup>†</sup>j ...
save new character
prepare to display
                              loc_0_152D:
152D 32 35 60
                                                           ld
ld
ld
                                                                          (regi_current_char), a
1533 CD FA 15
1536 C3 8A 15
1539
1539
                                                                          outline letter
                                                           call
                                                           jр
                                                                          loc_0_158A
1539
1539 3A 35 60
153C D6 01
153E F2 2D 15
1541 3E 1D
1543 C3 2D 15
1546
1546
                              regi_previous_character:
                                                                                                                                                  ; CODE XREF: 0000:151F<sup>†</sup> <sup>†</sup>
                                                           14
                                                                          a, (regi_current_char)
                                                                         #1
P, loc_0_152D
                                                           sub
                                                                                                                                                  ; previous character
                                                                                                                                                  ; not 0, skip
; set to last character
                                                           jp
ld
                                                                          loc_0_152D
1546
1546 3A 35 60
1549 FE 1C
154B CA 6D 15
154E FE 1D
1550 CA C6 15
1553 2A 36 60
1556 01 88 75
1559 A7
155A ED 42
155C CA 8A 15
155F 09
                              regi_jump_pressed:
                                                                                                                                                  ; CODE XREF: 0000:1507<sup>†</sup>j
                                                                              (regi_current_char)
                                                                                                                                                  ; RUB?
                                                           ср
                                                           jp
cp
jp
ld
                                                                         Z, regi_rub
                                                                                                                                                  ; yes, skip
; END?
                                                                          #0x1D
                                                                         Z, regi_save_hs_name
hl, (regi_entry_cursor_loc)
bc, #VRAM_start+0x188
                                                                                                                                                  ; yes, skip
; get current location
                                                           ld
                                                           and
                                                                         a
hl, bc
Z, loc_0_158A
hl, bc
                                                           jр
                                                            add
155F 09
1560 C6 11
1562
1562
                                                           add
                                                                          a, #0x11
                                                                                                                                                 ; convert to 'ascii'
                              loc_0_1562:
                                                                                                                                                 ; display character
1562 77
1563 01 E0 FF
1566 09
1567
                                                                         (hl), a bc, #0xFFE0 hl, bc
                                                           1d
                                                           ld
                                                                                                                                                 ; next column
                                                           add
1567
1567 22 36 60
156A C3 8A 15
                                                                                                                                                 ; CODE XREF: 0000:1583|j; store next location
                               regi_update_cursor:
                                                                         (regi_entry_cursor_loc), hl
loc_0_158A
                                                           jр
156D
156D
                                                                                                                                                  ; CODE XREF: 0000:154B<sup>†</sup>j
                              regi_rub:
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, (regi_entry_cursor_loc)
bc, #0x20; ' '
                                                                                                                                                 ; previous column ; adjust
                                                                         bc, #0:
hl, bc
                                                           ld
                                                           add
and
ld
                                                                          bc, #VRAM_start+0x208
                                                                         hl, bc
NZ, loc
                                                                                                                                                 ; first character?
; no, skip
                                                            sho
                                                                         NI, bc
NZ, loc_0_1586
hl, #VRAM_start+0x1E8
                                                           jp
ld
1580
1580
                               regi_erase_char:
                                                                                                                                                  ; CODE XREF: 0000:1587 j
                                                                         a, #0x10
(h1), a
regi_update_cursor
 1580 3E 10
                                                                                                                                                  ; space
; display
                                                           ld
1583 C3 67 15
                                                           jp
                                                                                                                                                  ; CODE XREF: 0000:157A1j
                              loc_0_1586:
1586
1586 09
1587 C3 80 15
158A
                                                           add
                                                                          hl. bc
                                                                           regi_erase_char
158A
                                                                                                                                                  ; CODE XREF: 0000:1511<sup>†</sup>j; 0000:151A<sup>†</sup>j ...
158A
                              loc_0_158A:
158A 21 32 60
158A
158D 35
                                                                         hl, #byte_0_6032 (hl)
                                                           dec
158D 35
158E C2 F9 15
1591 3A 31 60
1594 A7
1595 C2 B8 15
1598 3E 01
159A 32 31 60
159D 11 BF 01
                                                                         NZ, locret_0_15F9
a, (byte_0_6031)
                                                           jp
ld
                                                           and
                                                                         NZ, loc_0_15B8
                                                           jp
ld
ld
                                                                         a, #1
(byte_0_6031), a
de, #byte_0_1BD+2
                                                                                                                                                 ; empty/dummy score
                                                           ld
15A0
15A0
15A0
                                                                                                                                                 ; CODE XREF: 0000:15C3|j; ptr high score
                              loc_0_15A0:
                                                                         iy, (regi_ptr_hs_entry_flag)
1, 4(iy)
h, 5(iy)
h1
ir
15A0 FD 2A 38 60 15A4 FD 6E 04 15A7 FD 66 05 15AA ES 15AB DD E1 15AB DD E1 15BD 0E 105B 23 2 32 60 15BS C3 F9 15 15B8
                                                           ld
                                                           ld
                                                           ld
                                                           push
                                                                                                                                                  ; display location
; display new high score in table
                                                           pop
call
                                                                          ix
                                                                         display_score_HL_at_IX
                                                                          a, #0x10
(byte_0_6032), a
locret_0_15F9
                                                           ld
                                                            ld
                                                           qŗ
15B8
15B8
15B8
                                                                                                                                                 ; CODE XREF: 0000:1595<sup>†</sup>j
                              loc_0_15B8:
 15B8 AF
15B9 32 31 60
                                                           xor
ld
                                                                          a
(byte_0_6031), a
15BC ED 5B 38 60
15C0 13
15C1 13
                                                           ld
inc
inc
                                                                         de, (regi_ptr_hs_entry_flag)
de
de
                                                                                                                                                 ; point to high score
15C2 13
15C3 C3 A0 15
15C6
15C6
                                                           inc
                                                                          loc_0_15A0
1506 regi_save_hs_name:
1506 ED 5B 38 60
1506 ld
                                                                                                                                                  ; CODE XREF: 0000:14E711
                                                           ld
                                                                         de, (regi_ptr_hs_entry_flag)
                                                                                                                                                  ; point to high score
15CA AF
                                                                         (de), a hl, #eight_bit_countdown (hl), #0x80; 'Ç'
15CA AF
15CB 12
15CC 21 09 60
15CF 36 80
15D1 23
15D2 35
15D3 06 0C
15D5 21 E8 75
15D8 FD 2A 3A 60
15DC 11 E0 FF
15DF
                                                           xor
                                                           ld
ld
ld
                                                                                                                                                  ; unflag as P1/P2 high score
                                                           inc
                                                                                                                                                  ; main_sequencer
                                                                         hl
(hl)
b, #0xC
hl, #UXAM_start+0x1E8
iy, (regi_ptr_hs_entry_name)
de, #0xFFE0
                                                           dec
ld
                                                                                                                                                  ; -1 ; 12 chars to copy
                                                           ld
                                                           ld
                                                                                                                                                  ; CODE XREF: 0000:15E6-i
                              loc_0_15DF:
15DF
                                                                                                                                                 ; CODE EXER: 0000:1500]
get name character from screen
store in hs entry
next position
next column on screen
loop through 12 chars
                                                                          a, (hl)
0(iy), a
15DF 7E
                                                           14
15E0 FD 77 00
15E3 FD 23
                                                           ld
                                                                          iy
hl, de
15E5 19
15E6 10 F7
                                                           add
                                                                          loc_0_15DF
```

```
1662
1662 21 88 63
1665 34
1666 3E 01
                                                                                                                   ; CODE XREF: 0000:16A0-i
                        loc_0_1662:
                                                          hl, #unk_0_6388
(hl)
a, #1
0x30
                                               ld
                                               inc
ld
                                               rst
ld
ld
                                                                                                                    ; return if level bit not set
; sprite #2, x coord
; -4
1668 F7
1669 21 0B 69
166C 0E FC
                                                          hl, #soft_sprite_ram+0xB
c, #0xFC; '3'
0x38
; subtract 4 from x coord for 10 sprites
166E FF
                                               rst
                                                                                                                   ; DATA XREF: 0000:1625†o ; wait for 8-bit countdown
                        loc_0_1670:
                                               rst
ld
call
ld
                                                          0x18
hl, #dk_throw_barrel_spr
                                                          copy_sprites_2_11_data
a. #0x20 ; '
                                                          ld
ld
                                               inc
                                               ld
rst
                                                          (nr)
a, #4
0x30
hl, #soft_sprite_ram+0xB
c, #4
                                                                                                                    ; return if level bit not set
; sprite #2, x coord
                                               ld
                                               1d
                                                                                                                    ; add 4 to x coord for 10 sprites
1688 FF
```

```
1689 C9
                                                                 ret
168A
168A
168A
168A DF
168B 21 8C 38
168E CD 4E 00
1691 3E 66
1693 32 0C 69
                                                                                                                                                                  ; DATA XREF: 0000:1627\daggero o ; wait for 8-bit countdown
                                 loc_0_168A:
                                                                                 0x18
hl, #dk_climbing_spr
copy_sprites_2_ll_data
a, #0x66; 'f'
(soft_sprite_ram+0xC), a
                                                                  1d
                                                                  call
ld
ld
                                                                                                                                                                 ; sprite #3, y coord
1696 AF
1697 32 24 69
169A 32 2C 69
169D 32 AF 62
                                                                  xor
                                                                                  (soft_sprite_ram+0x24), a
(soft_sprite_ram+0x2C), a
(byte_0_62AF), a
                                                                  ld
ld
ld
16A0 C3 62 16
16A3
16A3
16A3
                                                                  jp
                                                                                  loc_0_1662
                                 loc 0 16A3:
                                                                                                                                                                  ; DATA XREF: 0000:16371o
16A3 CD 08 17
16A3 CD 08 17
16A6 3A 10 69
16A9 D6 3B
16AB 21 5C 38
16AE CD 4E 00
16B1 21 08 69
16B4 4F
16B5 FF
16B6 21 88 63
16B9 34
16BA C9
16BB
                                                                  call
ld
sub
                                                                                  sub_0_1708
a, (soft_sprite_ram+0x10)
#0x3B; ';'
                                                                                                                                                                  ; sprite #4, y coord
                                                                                  hl, #dk_normal_spr
copy_sprites_2_11_data
hl, #soft_sprite_ram+8
                                                                  ld
                                                                  call
ld
ld
                                                                                                                                                                  ; sprite #2, y coord
                                                                                  c, a
0x38
                                                                                                                                                                  ; add C to y coord for 10 sprites
                                                                  rst
                                                                  ld
inc
                                                                                  hl, #unk_0_6388
(hl)
                                                                  ret
16BB
16BB
16BB
16BB AF
                                 loc_0_16BB:
                                                                                                                                                                  ; DATA XREF: 0000:16391o
                                                                  xor
                                                                                  (unk_0_62A0), a
a, (unk_0_63A3)
C, a
16BC 32 A0 62
16BF 3A A3 63
16C2 4F
16C3 3A 10 69
                                                                  ld
ld
ld
                                                                                        (soft_sprite_ram+0x10)
                                                                                                                                                                  ; sprite #4. v coord
                                                                  ld
16C3 3A 10 69
16C6 FE 5A
16C8 D2 E1 16
16CB CB 79
                                                                  cp
jp
bit
                                                                                  NC, loc_0_16E1
16CB CB 79
16CD CA D5 16
                                                                                  Z, loc 0 16D5
                                                                  jр
16CD CA D5 16
16D0
16D0 3E 01
16D2 32 A0 62
16D5
16D5
                                                                                                                                                                  ; CODE XREF: 0000:16E8|j
                                  loc_0_16D0:
                                                                                  a, #1
(unk_0_62A0), a
                                                                  ld
                                  loc_0_16D5:
                                                                                                                                                                  ; CODE XREF: 0000:16CD<sup>†</sup>j; 0000:16EB<sup>†</sup>j
16D5 CD 02 26
16D5
                                                                  call
ld
ld
                                                                                  sub 0 2602
16D8 3A A3 63
16DB 4F
16DC 21 08 69
                                                                                  a, (unk_0_63A3)
                                                                                  c, a
hl, #soft_sprite_ram+8
16DC 21
16DF FF
16E0 C9
16E1
                                                                                                                                                                  ; sprite #2, y coord
; add C to y coord for 10 sprites
                                                                  ld
16E1
16E1
16E1 FE 5D
16E3 DA EE 16
16E6 CB 79
16E8 CA DO 16
16EB C3 D5 16
                                  loc_0_16E1:
                                                                                                                                                                  ; CODE XREF: 0000:16C81j
                                                                                 #0x5D; ']'
C, loc_0_16EE
7, c
                                                                  ср
                                                                  jp
bit
                                                                  jp
jp
                                                                                  Z, loc_0_16D0
loc_0_16D5
16EE
16EE
16EE
16EE
                                  loc_0_16EE:
                                                                                                                                                                  ; CODE XREF: 0000:16E3|j
hl, #dk_climbing_spr
                                                                  ld
                                                                  call
ld
ld
                                                                                  copy_sprites_2_11_data
a. #0x66 ; 'f'
                                                                                   (soft_sprite_ram+0xC), a
                                                                                                                                                                  ; sprite #4, x coord
                                                                  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
1706 34
1707 C9
1708
                                                                  inc
                                                                  ret
                                                  SUBROUTINE ....
1708
1708
1708
1708
1708 CD 1C 01
                                  sub_0_1708:
                                                                                                                                                                      CODE XREF: 0000:16541p
                                                                                                                                                                   ; 0000:16A31p
1708 21 20 6A
1708 21 20 6A
1708 36 80
1710 23
1711 36 76
1713 23
1714 36 09
1716 23
1717 36 20
1719 21 05 69
1710 36 13
1718 21 C4 75
1721 11 20 00
1724 3E 10
1726 CD 14 05
                                                                  call
ld
ld
                                                                                  stop_sound
hl, #soft_sprite_ram+0x120
(hl), #0x80; 'C'
                                                                                 ni
(h1), #0x76; 'v'
h1
(h1), #9
h1
                                                                  inc
                                                                  ld
inc
ld
inc
                                                                                 h1
(h1), #0x20; 'h1, #soft_sprite_ram+5
(h1), #0x13
h1, #VRAM_start+0x1C4
de, #0x20; 'a, #0x10
display_3_tiles_HL
h1, #unk_0_608A
(h1), #7
h1
                                                                  ld
ld
ld
                                                                                                                                                                  ; sprite #1, flipy & code
; pauline, front-on
                                                                  ld
ld
ld
                                                                  call
1720 CB 14 03
1729 21 8A 60
172C 36 07
172E 23
                                                                  ld
          36 03
                                                                                  (hl), #3
172F
                                                                  ld
172F 36 03
1731 C9
1731
1731
1732
1732
1732 CD 6F 30
1732
                                  ret; End of function sub_0_1708
                                                                                                                                                                  ; DATA XREF: 0000:1629<sup>†</sup>o; 0000:1638<sup>†</sup>o
                                  loc_0_1732:
                                                                                  animate_kong_climbing
a, (soft_sprite_ram+0x13)
#0x2C; ','
                                                                  call
ld
                                                                  ср
                                                                  ret
xor
ld
ld
                                                                                  NC
                                                                                  (soft_sprite_ram), a
(soft_sprite_ram+4), a
(soft_sprite_ram+0xC), a
a, #0x6B; 'k'
                                                                                                                                                                  ; sprite #0, y coord
; sprite #1, y coord
; sprite #3, y coord
                                                                  1d
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
  1747 32 24 69
                                                                            ld
                                                                                              (soft_sprite_ram+0x24), a
 1747 32 24 69
1748 3D 174B 32 2C 69
174E 21 21 6A
1751 34
1752 21 88 63
1755 34
                                                                            dec
                                                                           ld
ld
                                                                                             (soft_sprite_ram+0x2C), a
hl, #soft_sprite_ram+0x121
(h1)
                                                                                              hl, #unk_0_6388
                                                                            ld
  1756 C9
1757
1757
 1757
1757 CD 6F 30
1757
                                        loc_0_1757:
                                                                                                                                                                                        ; DATA XREF: 0000:162B\u00e10 o ; 0000:163D\u00e10 o
                                                                            call
                                                                                             animate_kong_climbing
 175A CD 6C 17
175D 23
175E 13
175F CD 83 17
                                                                           call
inc
inc
call
                                                                                              sub_0_176C
                                                                                              sub 0 1783
 175F CD 83 17
1762 3E 40
1764 32 09 60
1767 21 88 63
176A 34
176B C9
176C
176C
                                                                                             a, #0x40; '@'
(eight_bit_countdown), a
h1, #unk_0_6388
(h1)
                                                                           ld
ld
ld
                                                                            inc
                                                                            ret
                                                                           SUBROUTINE
 176C
176C
176C
176C 11 03 00
176F 21 2F 69
1772 06 0A
1774
1774
                                                                                                                                                                                        ; CODE XREF: 0000:175A1p
                                        sub_0_176C:
                                                                                             de, #3
hl, #soft_sprite_ram+0x2F
                                                                            ld
                                                                            14
                                                                            ld
                                        loc_0_1774:
                                                                                                                                                                                        ; CODE XREF: sub_0_176C+14|j
 1774
1774 A7
1775 7E
1776 ED 52
1778 FE 19
177A D2 7F 17
177D 36 00
177F
                                                                           and
ld
sbc
                                                                                             a, (hl)
hl, de
#0x19
                                                                            Cρ
                                                                                              NC, loc_0_177F (hl), #0
                                                                                                                                                                                       ; CODE XREF: sub 0 176C+E1i
                                       loc 0 177F:
  177F 2B
1780 10 F2
1782 C9
1782
                                                                           djnz
                                                                                              loc_0_1774
                                        ret; End of function sub_0_176C
 1782
1782
1783
1783
1783
1783
1783
1783
1783 06 0A
                                                                         SUBROUTINE
                                       sub_0_1783:
                                                                                                                                                                                       ; CODE XREF: 0000:175F1p
                                                                           ld
                                                                                             b, #0xA
  1785
1785
1785
                                        loc_0_1785:
                                                                                                                                                                                        ; CODE XREF: sub_0_1783+8|j
                                                                            ld
                                                                                             a, (hl)
  1786 A7
1787 C2 26 00
178A 19
178B 10 F8
                                                                                             a
NZ, pop_hl_ret
hl, de
loc_0_1785
                                                                            and
                                                                           jp
add
                                                                           djnz
                                        ret; End of function sub_0_1783
 178D C9
178D
178D
  178E
  178E
                                                                                                                                                                                       ; DATA XREF: 0000:162D\uparrowo ; 0000:163F\uparrowo ; wait for 8-bit countdown
  178E
178E DF
                                        loc_0_178E:
 178E DF

178E 2A 2A 62

1792 23

1793 7E

1794 FE 7F

1796 C2 9D 17

1799 21 73 3A

1790 7E
                                                                            rst
                                                                                              0x18
                                                                           ld
inc
                                                                                             hl, (seq_data)
hl
                                                                                             a, (h1)

#0x7F; ''

NZ, loc_0_179D

h1, #level_seq_2

a, (h1)
                                                                                                    (hl)
                                                                           cp
jp
ld
                                                                                                                                                                                       ; restart repeating levels?
; no, skip
; repeating levels
; get new level
                                                                            ld
 179D
179D
179D
17A0
 loc_0_179D:
                                                                                                                                                                                       ; CODE XREF: 0000:1796 j
                                                                                              (seq_data), hl
                                                                            ld
                                                                                             (level_type), a
de, #0x500
queue_fg_vector_fn
                                                                            ld
                                                                           ld
call
                                                                                                                                                                                       ; update_bonus_timer (add to score)
                                                                            xor
                                                                                              (unk 0 6388).
                                                                            ld
                                                                            ld
ld
                                                                                             hl, #eight_bit_countdown (hl), #0x30; '0'
                                                                            inc
ld
                                                                                              (hl), #8
                                                                                                                                                                                       ; sequencer = how high screen
                                        unk_0_17B6:
                                                                                           0 ;
                                                                                                                                                                                        ; DATA XREF: 0000:1648 o
                                                                            .db
 1787 CD 1C 01
1787 CD 1C 01
178A 21 8A 60
178D 36 0E
176F 23
17C0 36 03
17C2 3E 10
17C4 11 20 00
17C7 21 23 76
17CA CD 14 05
17CD 21 83 75
17D0 CD 14 05
17D3 21 DA 76
17D6 CD 26 18
17D9 11 47 3A
17DC CD 47 0D
17DF 21 D5 76
17E2 CD 26 17E2 CD 26 17E5 11 4D 3A
                                                                           call
ld
ld
                                                                                             stop_sound
hl, #unk_0_608A
(hl), #0xE
                                                                                            (n1), #UXE
h1
(h1), #3
a, #0x10
de, #0x20;
h1, #VRAM_start+0x223
display_3_tiles_HL
h1, #VRAM_start+0x183
display_3_tiles_HL
h1, #VRAM_start+0x2DA
clear_14x5_HL
de, #draw_data_rivet_end1
draw_level_background
h1, #VRAM_start+0x2D5
clear_14x5_HL
de, #draw_data_rivet_end2
draw_level_background
h1, #VRAM_start+0x2D5
clear_14x5_HL
de, #draw_data_rivet_end2
draw_level_background
h1, #VRAM_start+0x2D0
clear_14x5_HL
de, #draw_data_rivet_end3
                                                                           inc
ld
ld
ld
                                                                                                                                                                                        ; <space>
; inc by column
                                                                           ld
call
ld
                                                                           call
ld
call
ld
 17D0 CD 14
17D3 21 DA
17D6 CD 26
17D9 11 47
17DC CD A7
17DF 21 D5
17E2 CD 26
17E5 11 4D
                                                                            call
                                                                           ld
call
17D<sub>1</sub>
17E2 CD
17E5 11 4D 17E8 CD A7 C
17EB 21 DO 17EE CD 26
1 11 53 A7
                          3A
0D
76
18
                                                                            ld
                                                                           call
ld
call
de, #draw_data_rivet_end3
draw_level_background
hl, #VRAM_start+0x2CB
clear_14x5_HL
                                                                            ld
                                                                           call
ld
call
                                                                                              de, #draw_data_rivet_end4
draw_level_background
```

1d

call

1800 CD A7 OD

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
                                                                                hl, #dk_normal_spr
copy_sprites_2_11_data
hl, #soft_sprite_ram+8
c, #68
1803 21 5C 38
1806 CD 4E 00
                                                                 ld
                                                                 call
1809 21 08 69
180C 0E 44
180E FF
                                                                 ld
ld
rst
                                                                                                                                                              ; sprite #2, y coord
                                                                                                                                                               ; add 68 to y coord for 10 sprites ; sprite #1, yflip & code ; pauline, straight-on
180E FF
180F 21 05 69
1812 36 13
1814 3E 20
1816 32 09 60
1819 3E 80 63
181E 21 88 63
1821 34
1822 22 C0 63
                                                                                hl, #soft_sprite_ram+5 (hl), #0x13 a, #0x20; ''
                                                                 ld
                                                                 ld
ld
ld
                                                                                 a, #0x20 ; ' '
(eight_bit_countdown), a
                                                                                countdown
a, #0x80; 'C'
(kong_thrash_tmr), a
hl, #unk_0_6388
(hl)
                                                                 ld
                                                                 ld
ld
                                                                 inc
1822 22
1825 C9
1826
1826
                                                                 1d
                                                                                 (ptr_current_sequence), hl
                                                                 ret
                                                            SUBROUTINE ....
1826
1826
1826
1826
1826 11 DB FF
                                                                                                                                                               ; CODE XREF: 0000:1322<sup>p</sup>; 0000:1373<sup>p</sup> ...
                                 clear_14x5_HL:
1826
1829 OE OE
182B 3E 10
                                                                                de, #0xFFDB
c, #0xE
                                                                 1d
                                                                                 a, #0x10
                                                                                                                                                               ; <space>
                                                                 ld
182D
182D
182D 06 05
                                 loc_0_182D:
                                                                                                                                                               ; CODE XREF: clear_14x5_HL+F|j
                                                                                 b, #5
182D 06 05

182F

182F 77

1830 23

1831 10 FC

1833 19

1834 0D

1835 C2 2D 18

1838 C9
                                 loc_0_182F:
                                                                                                                                                                ; CODE XREF: clear_14x5_HL+B j
                                                                                                                                                               ; display space
; next row
; loop 5 times
                                                                                 (hl), a
                                                                 ld
                                                                inc
djnz
                                                                                 loc_0_182F
                                                                 add
dec
                                                                                 hl, de
                                                                                                                                                                ; next column
                                                                                 NZ, loc_0_182D
                                                                                                                                                               ; loop through 14 columns
                                                                 jр
                                                                 ret
1838
1838
1839
                                  ; End of function clear_14x5_HL
1839
1839
1839
1839 21 90 63
183C 34
183D CA 59 18
1840 7E
1841 E6 07
                                 loc_0_1839:
                                                                                                                                                              ; DATA XREF: 0000:164C1o
                                                                                hl, #kong_thrash_tmr
(hl)
                                                                 inc
                                                                                Z, loc_0_1859
a, (hl)
#7
                                                                 jp
ld
and
1841 E0 07
1843 C0
1844 11 CF 39
1847 CB 5E
1849 20 03
184B 11 F7 39
                                                                 ret
                                                                                 NZ
                                                                                 de, #0x39CF
3, (h1)
NZ, loc_0_184E
                                                                 14
                                                                 bit
                                                                 ĭd
                                                                                 de, #0x39F7
184E
184E EB
                                 loc_0_184E:
                                                                                                                                                               ; CODE XREF: 0000:1849<sup>†</sup>j
                                                                                 de, hl
                                                                 ex
                                                                                copy_sprites_2_11_data
hl, #soft_sprite_ram+8
c, #68
184F CD 4E 00
1852 21 08 69
1855 0E 44
1857 FF
                                                                 call
ld
ld
                                                                                                                                                               ; sprite #2, y coord
                                                                                 0x38
                                                                                                                                                               ; add 68 to y coord for 10 sprites
                                                                 rst
1858 C9
1859
1859
                                                                                                                                                               ; CODE XREF: 0000:183D|j
                                 loc 0 1859:
1859
1859 21 5C 38
185C CD 4E 00
185F 21 08 69
1862 0E 44
                                                                                hl, #dk_normal_spr
copy_sprites_2_11_data
hl, #soft_sprite_ram+8
c, #68
0x38
                                                                 ld
                                                                 call
ld
                                                                                                                                                               ; sprite #2, y coord
185F 21 08 69
1862 0E 44
1864 FF
1865 3E 20
1867 32 09 60
186A 21 88 63
186D 34
186E C9
186F
                                                                 ld
                                                                 rst
                                                                                                                                                               ; add 68 to y coord for 10 sprites
                                                                 ld
ld
                                                                                       #0x20 ; ' '
                                                                                 a, #0x20 ; ' '
(eight_bit_countdown), a
                                                                 ld
                                                                                hl, #unk_0_6388
(hl)
                                                                 inc
                                                                 ret
186F
186F
186F DF
1870 21 1F 3A
                                                                                                                                                               ; DATA XREF: 0000:164E<sup>†</sup>o; wait for 8-bit countdown
                                 loc_0_186F:
                                                                 rst
ld
                                                                                 hl, #fk_falling_spr
1870 21 1F 3A

1873 CD 4E 00

1876 3E 03

1878 32 84 60

187B 21 88 63

187E 34

187F C9

1880
                                                                                nl, #IK_Talling_spr
copy_sprites_2_11_data
a, #3
(digital_snd_tmr_kong_fall), a
hl, #unk_0_6388
                                                                 call
ld
ld
                                                                 ld
                                                                                 hl, (hl)
1880
1880

1880 21 0B 69

1883 0E 01

1885 FF

1886 3A 1B 69

1889 FE D0

188B C0
                                 loc_0_1880:
                                                                                                                                                                  DATA XREF: 0000:1650<sup>†</sup>o sprite #2, x coord
                                                                                 hl, #soft_sprite_ram+0xB
                                                                                 c, #1
0x38
                                                                 ld
                                                                                                                                                                ; add 1 to x coord for 10 sprites
                                                                 rst
                                                                 ld
cp
ret
                                                                                 a, (soft_sprite_ram+0x1B)
#0xD0 ; 'ŏ'
                                                                                 NZ
188B C0
188C 3E 20
188E 32 19 69
1891 21 24 6A
1894 36 7F
                                                                                NZ
a, #0x20;
'(soft_sprite_ram+0x19), a
hl, #soft_sprite_ram+0x124
(hl), #0x7F;
'
                                                                 ld
ld
ld
ld
1896 2C
1897 36 39
1899 2C
                                                                 ld
                                                                                 (hl), #0x39 ; '9'
                                                                 inc
ld
1899 2C

189A 36 01

189C 2C

189D 36 D8

189F 21 C6 76

18A2 CD 26 18

18A5 11 5F 3A

18A8 CD A7 0D

18AB 11 04 00
                                                                                 (hl), #1
                                                                 inc
ld
ld
                                                                                 (h1), #0xD8; 'Ï'
h1, #VRAM_start+0x2C6
clear_14x5_HL
                                                                 call
                                                                 ld
call
                                                                                 de, #draw_data_rivet_end5
draw_level_background
18AB 11 04 00
18AE 01 28 02
                                                                                de, #4
bc, #0x228
hl, #soft_sprite_ram+3
add_c_sprite_register_xB
                                                                 ld
                                                                 ld
18B1 21 03 69
18B4 CD 3D 00
18B7 3E 00
                                                                 ld
call
ld
                                                                                                                                                               ; sprite #0, x coord
```

a, #0

(byte $_0_62AF$ ), a a, #3
(digital\_snd\_tmr\_thump), a

hl, #unk\_0\_6388 (hl)

; tmr=3

ld ld

ld

1d

18B7 3E 00 18B9 32 AF 62 18BC 3E 03 18BE 32 82 60

88 63

18C1 21 18C4 34

```
18C5 C9
                                                              ret
18C6
18C6
18C6
18C6 21 AF 62
                               loc_0_18C6:
                                                                                                                                                        ; DATA XREF: 0000:1652\overline{0000}
                                                                             hl, #byte_0_62AF
18C9
         35
                                                              dec
                                                                             (h1)
18CA CA 3D 19
18CD 7E
18CE E6 07
                                                                             Z, loc_0_193D
a, (h1)
#7
                                                              jp
ld
                                                              and
18D0 C0
18D1 21 25 6A
18D4 7E
18D5 EE 80
                                                              ret
ld
ld
                                                                             hl, #soft_sprite_ram+0x125
a, (hl)
#0x80; 'C'
                                                              xor
18D7 77
18D8 21 19 69
18DB 46
18DC CB A8
                                                              ld
ld
ld
                                                                             (hl), a
hl, #soft_sprite_ram+0x19
b, (hl)
5, b
18DC CB A8
18DE AF
18DF CD 09 30
18E2 F6 20
18E4 77
18E5 21 AF 62
18E8 7E E0
18EB C2 10 19
18EE 3E 50
18F0 32 4F 69
18F3 3E 00
18F5 32 4D 69
18F3 3E 9F
18FA 32 4C 69
18FD 3A 03 66
18FD 3A 03 69
                                                              res
                                                              xor
call
                                                                              animate_mario_or_barrel_sprite
                                                                             #0x20;
(h1), a
h1, #byte_0_62AF
                                                              or
ld
                                                                             hl, #byte_0_
a, (hl)
#0xE0; 'Ó'
                                                              ld
ld
                                                              cp
jp
ld
ld
ld
ld
ld
                                                                             NZ, loc_0_1910
a, #0x50; 'P'
(soft_sprite_ram+0x4F), a
                                                                             a, #0 (soft_sprite_ram+0x4D), a
                                                                             a, #0x9F; 'f'
(soft_sprite_ram+0x4C), a
                                                                             a, (mario_y)
#0x80 ; 'C'
1900 FE 80
1902 D2 OF 19
1905 3E 80
1907 32 4D 69
                                                              cp
jp
ld
                                                                             NC, loc_0_190F
                                                                             a, #0x80 ; 'C'
(soft_sprite_ram+0x4D), a
                                                              ld
190A 3E 5F
190C 32 4C 69
190F
                                                              ld
                                                                             (soft_sprite_ram+0x4C), a
190F 7E 199F 7E 199F 7E 1910 1910 1910 1912 CO 1912 CO 1918 3A 60 1916 36 0C 1918 3A 29 62 191B 0F 1910 38 02 191E 36 05 1920
                                                                                                                                                        ; CODE XREF: 0000:19021i
190F
                               loc_0_190F:
                                                              ld
                                                                             a, (hl)
                                                                                                                                                        ; CODE XREF: 0000:18EB<sup>†</sup> †
                               loc 0 1910:
                                                                             #0xC0 ; 'L'
                                                              ср
                                                                             NZ
hl, #unk_0_608A
                                                              ret
ld
                                                              ld
                                                                             (hl), #0xC
a, (level)
                                                              14
                                                              rrca
                                                                             C, loc_0_1920
(hl), #5
                                                              jr
ld
1920
1920
1920 23
                               loc_0_1920:
                                                                                                                                                        ; CODE XREF: 0000:191C j
1920 23
1921 36 03
1923 21 23 6A
1926 36 40
1928 2B
                                                                             (h1), #3
h1, #soft_sprite_ram+0x123
(h1), #0x40; '@'
                                                              1d
                                                              ld
ld
                                                              dec
                                                                             hl
1929 36 09
192B 2B
192C 36 76
192E 2B
                                                              ld
dec
                                                                              (hl), #9
                                                                             hl (hl), #0x76; 'v'
192E 2B
192F 36 8F
1931 3A 03 62
1934 FE 80
1936 D0
1937 3E 6F
1939 32 20 6A
1930 C9
                                                              dec
ld
                                                                              (hl), #0x8F; 'Å'
                                                              ld
cp
                                                                             a, (mario_y)
#0x80 ; 'Ç'
                                                                             NC
a, #0x6F; 'o'
(soft_sprite_ram+0x120), a
                                                              ret
ld
                                                              ld
193D
193D
193D
193D
193D 2A 2A 62
                                                                                                                                                         ; CODE XREF: 0000:18CA j
                                loc_0_193D:
                                                              ld
                                                                             hl, (seq_data)
193D 2A 2A 62
1940 23
1941 7E
1942 FE 7F
1944 C2 4B 19
1947 21 73 3A
194A 7E
194B
                                                                             hl
a, (hl)
#0x7F; ''
NZ, loc_0_194B
                                                              ld
                                                                                                                                                         ; restart repeating levels?
                                                              ср
                                                                                                                                                         ; no, skip
; start repeating levels
; get new level
                                                              jp
ld
                                                                             hl, #level_seq_2
a, (hl)
                                                                                                                                                         ; CODE XREF: 0000:1944<sup>†</sup> i
194B
                                loc 0 194B:
1948
1948 22 2A 62
194E 32 27 62
1951 21 29 62
1954 34
1955 11 00 05
1958 CD 9F 30
                                                              ld
ld
ld
                                                                             (seq_data), hl
(level_type), a
                                                                             hl, #level
(hl)
de, #0x500
queue_fg_vector_fn
                                                              inc
                                                                                                                                                         ; next level counter
                                                              ld
call
                                                                                                                                                         ; update_bonus_timer (add to score)
1956 CD 32 SC
195B AF
195C 32 2E 62
195F 32 88 63
1962 21 09 60
1965 36 E0
1967 23
                                                              xor
ld
                                                                              a
(height),
                                                                             (unk_0_6388), a
h1, #eight_bit_countdown
(h1), #0xE0; 'Ó'
                                                              ld
ld
ld
                                                              inc
ld
1968 36
196A C9
196B
         36 08
                                                                              (hl), #8
                                                                                                                                                         ; set how high screen
                                                              ret
196B
196B CD 52 08
196B CD 52 08
196E 3A 0E 60
1971 C6 12
1973 32 0A 60
1976 C9
1977
1977
1977 CD EE 21
197A
                                ; DATA XREF: 0000:0730 o
                                                                                                                                                         ; 0/1
                                                                             a, (current_player_E)
a, #18
                                                              add
ld
                                                                             (main_sequencer), a
                                                                                                                                                         ; 18/19
                                                              ret
                                                                                                                                                         ; DATA XREF: 0000:074E↑o
                                attract_mode_gameplay:
                                                              call
                                                                             next_attract_action
197A
                                gameplay:
                                                                                                                                                         ; DATA XREF: 0000:071A<sup>†</sup>o; another jump table
                                                                             check_and_handle_bonus
197D CD 8C 1E
1980 CD C3 1A
1983 CD 72 1F
1986 CD 8F 2C
                                                              call
call
                                                                             sub_0_1E8C
sub_0_1AC3
sub_0_1F72
sub_0_2C8F
                                                              call
                                                                             sub_0_2C03
sub_0_30ED
1989 CD 03
                                                              call
198C CD ED 30
                                                              call
                                                                                                                                                         ; process fireballs?
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
198F CD 04 2E
1992 CD EA 24
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
19BO CD FB 03
19B3 CD 08 28
19B6 CD 1D 28
                                                                    call
                                                                                    sub_0_2E04
                                                                                                                                                                      ; process springs
                                                                                    sub_0_24EA
sub_0_2DDB
sub_0_2ED4
sub_0_2207
                                                                    call
                                                                    call
call
                                                                                    sub_0_1A33
sub_0_2A85
sub_0_1F46
sub_0_26FA
                                                                    call
                                                                    call
call
                                                                    call
call
                                                                                    sub_0_25F2
sub_0_19DA
animate_kong_and_pauline
sub_0_2808
                                                                    call
 19B6 CD 1D 28
19B9 CD 57 1E
19BC CD 07 1A
19BF CD CB 2F
                                                                    call
call
                                                                                    sub_0_281D
sub_0_1E57
sub_0_1A07
sub_0_2FCB
19BF CD CB 2F
19C2 00
19C4 00
19C5 3A 00 62
19C8 A7
19C9 CO
19CA CD 1C 01
19CD 21 82 60
19D0 36 03
19D2
19D2 21 0A 60
19D5 34
19D6 2B
19D7 36 40
19D9 C9
19DA
19DA
19DA
                                                                    call
                                                                    nop
nop
                                                                    nop
ld
                                                                                    a, (mario_alive_flag)
                                                                    and
ret
call
                                                                                                                                                                      ; mario alive?
; yes, return
                                                                                    stop sound
                                                                                    hl, #digital_snd_tmr_thump (hl), #3
                                                                    ld
                                                                                                                                                                      ; tmr=3
                                   loc 0 19D2:
                                                                                                                                                                      ; CODE XREF: 0000:1A30-j
                                                                    ld
inc
dec
ld
                                                                                    hl, #main_sequencer
(hl)
                                                                                                                                                                      ; next sequence
; 8-bit countdown
; set counter
                                                                                    hl
(hl), #64
                                                                    ret
                                                                    SUBROUTINE
19DA
19DA
19DA 3A 03 62
19DD 06 03
19DF 21 0C 6A
19E2
19E2 BE
19E3 CA ED 19
19E6 2C
19E7 2C
19E8 2C
                                   sub_0_19DA:
                                                                                                                                                                      ; CODE XREF: 0000:19AD1p
                                                                    ld
                                                                                    a, (mario_y)
                                                                    ld
                                                                    ld
                                                                                    hl, #soft_sprite_ram+0x10C
                                   loc 0 19E2:
                                                                                                                                                                      ; CODE XREF: sub_0_19DA+10|j
                                                                    ср
                                                                                     (hl)
                                                                                    Z, loc_0_19ED
                                                                    jp
inc
                                                                    inc
inc
inc
djnz
19E8 2C
19E9 2C
19EA 10
19EC C9
19ED
19ED
          2C
10 F6
                                                                                    loc_0_19E2
                                   loc_0_19ED:
                                                                                                                                                                      ; CODE XREF: sub_0_19DA+9^j
19ED 3A 05 62
19F0 2C
19F1 2C
19F2 2C
                                                                                    a, (mario_x)
1
                                                                    1d
                                                                    inc
inc
inc
19F2 2C

19F3 BE

19F4 CO

19F5 2D

19F6 2D

19F7 CB 5E

19F9 CO

19FA 2D

19FB 22 43 63

19FE AF
                                                                    cp
ret
dec
dec
bit
                                                                                    (h1)
                                                                                         (hl)
                                                                    ret
dec
ld
                                                                                    (unk_0_6343), hl
19FE AF
19FF 32 42 63
1A02 3C
1A03 32 40 63
                                                                    XOY.
                                                                    ld
                                                                                      (unk_0_6342), a
                                                                    ld
                                                                                    (show_bonus_state), a
 1A06 C9
1A06
1A06
                                   ret; End of function sub_0_19DA
1A07
1A07
1A07
                                                                  SUBROUTINE
1A07
1A07 3A 86 63
1A0A EF
                                   sub_0_1A07:
                                                                                                                                                                      ; CODE XREF: 0000:19BC1p
                                                                    ld
                                                                                    a, (unk_0_6386)
0x28
                                                                                                                                                                      ; go!
                                                                    rst
1A0A EF
1A0B 1E 1A
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
1A18 32 86 63
                                                                    .dw locret_0_1A1E
.dw loc_0_1A15
.dw loc_0_1A1F
                                                                                                                                                                      ; Jump table
                                                                     .dw loc_0_1A2A
                                                                     .dw
                                   loc 0 1A15:
                                                                                                                                                                      ; DATA XREF: sub 0 1A07+6 o
                                                                    ld
ld
                                                                                     (unk_0_6387), a
```

(unk\_0\_6386), a

hl, #0x6387 (hl)

loc\_0\_19D2

a, #3 (unk\_0\_6386), a

a, (mario\_jumping)

NZ

; DATA XREF:  $sub_0_1A07+4\uparrow o$ 

; DATA XREF: sub\_0\_1A07+8 o

; DATA XREF: sub\_0\_1A07+A10

1d

ret ; End of function sub\_0\_1A07

> dec ret

ld ld

ret

ld

and ret pop

locret\_0\_1A1E:

loc\_0\_1A1F:

loc\_0\_1A2A:

1A19 3E 02 1A1B 32 86 63 1A1E 1A1E 1A1E C9

1A1E C9
1A1E
1A1F
1A1F
1A1F
1A1F
1A1F
1A2 35
1A22 35
1A23 C0
1A24 3E 03
1A26 32 86 63
1A29 C9
1A2A
1A2A
1A2A
1A2A
1A2A

1A2A 3A 16 62 1A2D A7 1A2E C0 1A2F E1

1A30 C3 D2 19 1A33

```
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```

```
1A33
                                                       SUBROUTINE ....
sub_0_1A33:
                                                                                                                                              ; CODE XREF: 0000:199E↑p
                                                                        a, #8
0x30
                                                                                                                                              ; return if level bit not set
                                                          rst
                                                                        a, (mario_y)
#0x4B; 'K'
Z, loc_0_1A4B
                                                          ld
cp
                                                          jp
cp
jp
ld
                                                                        #0xB3; '|'
Z, loc_0_1A4B
a, (unk_0_6291)
                                                          dec
                                                          jp
ret
                                                                        Z, loc_0_1A51
1A4B
1A4B 3E 01
1A4B
                                                                                                                                              ; CODE XREF: sub_0_1A33+8<sup>†</sup>j
; sub_0_1A33+D<sup>†</sup>j
                             loc_0_1A4B:
                                                          ld
1A4B
1A4D 32 91 62
1A50 C9
1A51
1A51
                                                          ld
                                                                        (unk_0_6291), a
1A51
1A51
1A51 32 91 62
1A54 47
1A55 3A 05 62
1A58 3D
1A59 FE DO
1A5B DO
1A5C 07
                                                                                                                                              ; CODE XREF: sub 0 1A33+14<sup>†</sup> i
                              loc_0_1A51:
                                                          ld
ld
                                                                        (unk_0_6291), a
                                                                        b, a
a, (mario_x)
                                                          ld
                                                          cp
ret
                                                                        #0xD0 ; 'ð'
NC
                                                          rlca
1A5C 07
1A5D D2 62 1A
1A60 CB D0
1A62
1A62
                                                                        NC, loc_0_1A62
2, b
                                                                                                                                              ; CODE XREF: sub_0_1A33+2A j
                              loc 0 1A62:
rlca
rlca
                                                                        NC, loc_0_1A69
                                                          jp
set
                                                                                                                                              ; CODE XREF: sub_0_1A33+31 j
                              loc_0_1A69:
1A69 E6 07
1A6B FE 06
1A6D C2 72 1A
1A70 CB C8
1A72
1A72 3A 03 62
1A75 07
1A76 D2 7B 1A
1A79 CB C0
1A7B 1A7B
                                                          and
                                                          cp
jp
set
                                                                        NZ, loc_0_1A72
1, b
                              loc 0 1A72:
                                                                                                                                              ; CODE XREF: sub 0 1A33+3A1i
                                                         ld
rlca
                                                                        a, (mario_y)
                                                                        NC, loc_0_1A7B 0, b
                                                          jр
                                                          set
                              loc_0_1A7B:
                                                                                                                                              ; CODE XREF: sub_0_1A33+43 j
1A7B 21 92 62 1A7E 78 1A7F 85 1A80 6F 1A81 7E 1A82 A7 1A83 C8 1A84 36 00 1A86 21 90 62 1A89 35 1A88 01 05 00 1A8E 1F 1A8F DA BD 1A
                                                          1d
                                                                        hl, #unk_0_6292
                                                          ld
add
ld
                                                                        a, b
a, 1
1, a
                                                          ld
and
ret
                                                                        a, (hl)
a
Z
                                                                        (hl), #0
                                                          ld
                                                                        hl, #unk_0_6290
(hl)
                                                          ld
                                                          dec
                                                                        bc, #5
                                                          ld
                                                          rra
1A8E 1F
1A8F DA BD 1A
1A92 21 CB 02
1A95
1A95
1A95 A7
1A96 CA 9E 1A
                                                                       C, loc_0_1ABD
hl, #0x2CB
                              loc_0_1A95:
                                                                                                                                             ; CODE XREF: sub_0_1A33+8D j
                                                                        a
Z, loc_0_1A9E
                                                          qį
1A99
1A99
1A99 09
1A9A 3D
                              loc_0_1A99:
                                                                                                                                              ; CODE XREF: sub_0_1A33+68|j
                                                          add
                                                                        hl, bc
1A9A 3D
1A9B C2 99 1A
1A9E
1A9E 01 00 74
1AA1 09
1AA2 3E 10
1AA4 77
1AA5 2D
1AA6 77
1AA7 2C
1AA8 2C
1AA9 77
1AAA 3E 01
1AAC 3Z 40 63
1AAF 3Z 4Z 63
1ABF 3Z 4Z 63
1ABB 3Z 25 66
1ABB A7
1ABB C C 95 1D
                                                                        NZ, loc_0_1A99
                                                          jp
                              loc_0_1A9E:
                                                                                                                                             ; CODE XREF: sub_0_1A33+63<sup>†</sup>j
                                                                       bc, #VRAM_start
hl, bc
a, #0x10
(hl), a
                                                          ld
                                                          add
ld
ld
                                                          dec
ld
inc
                                                                        (hl), a
                                                                       (hl), a
a, #1
                                                          inc
                                                          ld
ld
ld
                                                                        (nh, 4
(show_bonus_state), a
(unk_0_6342), a
(unk_0_6225), a
                                                          ld
ld
                                                                        a, (mario_jumping)
                                                          and
call
                                                                        a
Z, sub_0_1D95
1ABC C9
1ABD
1ABD
1ABD
                              loc 0 1ABD:
                                                                                                                                              ; CODE XREF: sub 0 1A33+5C1i
1ABD 21 2B 01
1AC0 C3 95 1A
1AC0
                                                                       hl, #<mark>0x12B</mark>
loc_0_1A95
                                                          1d
                              jp loc_
; End of function sub_0_1A33
1AC0
1AC3
1AC3
1AC3
1AC3
                                                         SUBROUTINE
                              sub_0_1AC3:
                                                                                                                                              ; CODE XREF: 0000:1980↑p
        3A 16 62
3D
                                                          ld
                                                                        a, (mario_jumping)
1AC6 3D
1AC7 CA B2 1B
1ACA 3A 1E 62
1ACD A7
                                                          dec
                                                                        a
Z, loc_0_1BB2
                                                          jp
ld
                                                                        a, (unk_0_621E)
                                                          and
1ACE C2 55 1B
1AD1 3A 17 62
                                                                        NZ, loc_0_1B55
a, (unk_0_6217)
                                                          jp
ld
```

```
1AD4 3D
1AD5 CA E6 1A
                                                            jp
ld
dec
                                                                           Z. loc 0 1AE6
1AD5 CA E6 1A
1AD8 3A 15 62
1ADB 3D
1ADC CA 38 1B
1ADF 3A 10 60
1AE2 17
1AE3 DA 6E 1B
1AE6
                                                                           a, (mario_climbing)
                                                             jp
ld
                                                                           a, (controller_in)
                                                             rla
                                                                                                                                                    ; jump pressed?
; yes, skip
                                                                           C, loc_0_1B6E
                                                             jp
1AE6
1AE6 CD 1F 24
1AE9 3A 10 60
1AEC 1D
                               loc 0 1AE6:
                                                                                                                                                    ; CODE XREF: sub 0 1AC3+12 j
                                                            call
ld
dec
                                                                           sub_0_241F
a, (controller_in)
                                                                           Z, loc_0_1AF5
1AED CA F5 1A
1AF0 CB 47
1AF2 C2 8F 1C
1AF5
                                                             jp
bit
                                                                                                                                                    ; right?
; yes, skip
                                                                           NZ, mario_right
                                                             jр
1AF5
1AF5 15
1AF6 CA FE 1A
1AF9 CB 4F
                               loc_0_1AF5:
                                                                                                                                                    ; CODE XREF: sub_0_1AC3+2Afj
                                                             dec
                                                                           d
Z, loc_0_1AFE
                                                             jp
bit
                                                                                                                                                    ; left?
; yes, skip
1AFB C2 AB 1C
1AFE
                                                                           NZ, mario_left
                                                             jр
                                                                                                                                                    ; CODE XREF: sub_0_1AC3+33<sup>†</sup>j
1AFE
                               loc 0 1AFE:
1AFE 3A 17 62
1B01 3D
1B02 C8
1B03 3A 0 62
1B03 3A 0 62
1B08 57
1B09 3A 03 62
1B0C F6 03
1B0E CB 97
1B10 01 15 00
1B13 CD 6E 23
1B16 F5
1B17 21 07 62
1B1A 7E
1B1B E6 80
1B01 F6 06
1AFE 3A 17 62
                                                            ld
                                                                           a, (unk_0_6217)
                                                            dec
                                                             ld
                                                                           a, (mario_x)
a, #8
                                                             add
                                                             ld
ld
                                                                           d, a
                                                                           a, (mario_y)
                                                             or
                                                            res
ld
call
                                                                           sub_0_236E
                                                            push
ld
ld
                                                                           hl, #mario_flipy_tile
a, (hl)
#0x80; 'C'
                                                             and
1B1B E6 80
1B1D F6 06
1B1F 77
1B20 21 1A 62
1B23 3E 04
1B25 B9
1B26 36 01
1B28 D2 2C 1B
                                                                           (hl), a
hl, #unk_0_621A
a, #4
                                                                                                                                                    ; mario climbing character
                                                             or
                                                            ld
ld
ld
                                                            cp
ld
jp
dec
                                                                           (h1), #1
NC, loc_0_1B2C
(h1)
                                                                                                                                                     ; set as broken ladder
1B2B 35
1B2C
1B2C
1B2C F1
                                                                                                                                                    ; set as normal ladder
                               loc_0_1B2C:
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+65<sup>†</sup>j
                                                             pop
and
1B2D A7
1B2E CA 4E 1B
1B31 7E
1B32 A7
                                                                           a
Z, loc_0_1B4E
a, (hl)
                                                             jp
ld
                                                             and
1B32 A7

1B33 C0

1B34 2C

1B35 72

1B36 2C

1B37 70

1B38

1B38

1B38 3A
                                                             ret
inc
ld
                                                                           NZ
                                                                           1
(hl), d
                                                                                                                                                     ; set top coordinate of ladder
                                                             ld
                                                                           (hl), b
                                                                                                                                                    ; set bottom Y coordinate of ladder
                               loc_0_1B38:
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+19 j
1838 3A 10 60 1838 CB 5F 183D C2 F2 1C 1840 3A 15 62 1843 A7 1844 C8
                                                                           a, (controller_in)
3, a
                                                             ld
                                                            bit
                                                                                                                                                     ; down?
                                                                           NZ, loc_0_1CF2
a, (mario_climbing)
                                                             jp
ld
                                                             and
                                                             ret
1B44 C8

1B45

1B45

1B45 3A 10 60

1B48 CB 57

1B4A C2 03 1D

1B4D C9
                               loc_0_1B45:
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+8F|j
                                                                           a, (controller_in)
                                                             ld
                                                             bit
                                                                                                                                                     ; up?
; yes, go
                                                                           NZ, loc_0_1D03
                                                             jр
                                                             ret
1B4E
1B4E
1B4E
                               loc_0_1B4E:
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+6B<sup>†</sup>j
1B4E 2C
                                                             inc
1B4F 70
1B50 2C
1B51 72
1B52 C3 45 1B
                                                                            (hl), b
                                                            ld
                                                             inc
                                                                                                                                                    ; set top Y corordinate of ladder; set bottom coordinate of ladder
                                                                           (hl), d
loc_0_1B45
                                                             jр
1B55
1B55
1B55
                               loc_0_1B55:
                                                                                                                                                    ; CODE XREF: sub_0_1AC3+B<sup>†</sup>j
1B55 21 1E 62
1B58 35
1B59 C0
                                                                           hl, #unk_0_621E
(hl)
NZ
                                                             ld
                                                            dec
                                                                           nz
a, (unk_0_6218)
(unk_0_6217), a
hl, #mario_flipy_tile
a, (hl)
#0x80; 'C'
1859 C0
185A 3A 18 62
185D 32 17 62
1860 21 07 62
1863 7E
1864 E6 80
                                                             ld
ld
                                                             ld
ld
                                                                                                                                                    ; h-flip mario
                                                             and
1B66 77
1B67 AF
1B68 32 02 62
1B6B C3 A6 1D
                                                             1d
                                                                           (hl), a
                                                             xor
ld
                                                                                                                                                     ; animation cell 0
                                                                           (mario_animation_cell), a
update_mario_sprite_registers
                                                             αĖ
1B6E
1B6E
1B6E
                               loc_0_1B6E:
                                                                                                                                                     ; CODE XREF: sub_0_1AC3+20 j
186E 3E 01 1870 32 16 62 1873 21 10 62 1876 3A 10 60 1879 01 80 00 187C 1F
                                                             ld
                                                                                                                                                    ; start_jump
; set mario jumping
                                                            ld
ld
ld
                                                                           (mario_jumping), a
hl, #unk_0_6210
a, (controller_in)
bc, #0x80; 'Ç'
                                                             ld
1B7C 1F
1B7D DA 8A 1B
1B80 01 80 FF
1B83 1F
                                                             rra
jp
ld
                                                                                                                                                     ; right?
; yes, skip
                                                                            C, loc_0_1B8A
                                                                           bc, #0xFF80
                                                                                                                                                     ; left?
                                                             rra
1B84 DA 8A 1B
1B87 01 00 00
                                                                           C, loc_0_1B8A
bc, #0
                                                                                                                                                     ; yes, skip
1B8A
                                                                                                                                                    ; CODE XREF: sub_0_1AC3+BA<sup>†</sup> j ; sub_0_1AC3+C1<sup>†</sup> j
1B8A
                               loc_0_1B8A:
1B8A AF
1B8A
                                                             xor
1B8B 70
                                                                            (hl), b
                                                             1d
1B8C 2C
```

```
(hl), c
  1B8D 71
                                                                                                                                             ld
  1B8E 2C
1B8F 36 01
1B91 2C
1B92 36 48
                                                                                                                                           ld
inc
ld
                                                                                                                                                                               (hl), #1
                                                                                                                                                                              (hl), #0x48; 'H'
1B92 36 48

1B94 2C

1B95 77

1B96 32 04 62

1B99 32 06 62

1B9C 3A 07 62

1B9F E6 80

1BA1 F6 0E

1BA3 32 07 62

1BA3 32 07 62

1BA6 3A 05 62

1BA9 32 0E 62

1BA9 32 0E 62

1BAC 21 81 60

1BAF 36 03

1BBI C9
                                                                                                                                             inc
                                                                                                                                            ld
ld
ld
                                                                                                                                                                              (hl).
                                                                                                                                                                             (N1), a
(unk_0_6204), a
(unk_0_6206), a
a, (mario_flipy_tile)
#0x80; 'C'
                                                                                                                                             ld
                                                                                                                                            and
or
ld
                                                                                                                                                                                                                                                                                                                                                     ; mario jumping character
                                                                                                                                                                              (mario_flipy_tile), a
                                                                                                                                            ld
ld
ld
                                                                                                                                                                             a, (mario_x)
(unk_0_620E), a
hl, #digital_snd_tmr_jump
(hl), #3
                                                                                                                                                                                                                                                                                                                                                      ; tmr=3
                                                                                                                                             ld
 1BB1 C9
1BB2
1BB2
IBB2

IBB2 DD 21 00 62

IBB6 3A 03 62

IBB9 DD 77 0B

IBBC 3A 05 62

IBBF DD 77 0C

IBC2 CD 9C 23

IBC5 CD 1F 24

IBC8 15

IBC9 C2 F2 1B

IBCC DD 36 10 00

IBD0 DD 36 11 80

IBD4 DD CB 07 FE

IBD8

                                                                                                                                                                                                                                                                                                                                                      ; CODE XREF: sub 0 1AC3+4<sup>†</sup> i
  1BB2
                                                                       loc_0_1BB2:
                                                                                                                                                                            ix, #mario_alive_flag
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
                                                                                                                                            ld
call
                                                                                                                                                                                                                                                                                                                                                      ; store Y position before a jump
                                                                                                                                             call
dec
                                                                                                                                                                              sub_0_241F
                                                                                                                                            jp
ld
ld
                                                                                                                                                                             NZ, loc_0_1BF2
0x10(ix), #0
0x11(ix), #0x80; 'C'
                                                                                                                                             set
                                                                                                                                                                                                                                                                                                                                                     ; h-flip sprite
                                                                       loc_0_1BD8:
                                                                                                                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_1AC3+13F|j
                                                                                                                                            ld
                                                                                                                                                                             a. (unk 0 6220)
1BDB 3A 20 62

1BDB 3D

1BDC CA EC 1B

1BDF CD 07 24

1BE2 DD 74 12

1BE5 DD 75 13

1BE8 DD 36 14 00

1BEC
                                                                                                                                                                             a, (unx_0_6221
a, Z, loc_0_1BEC
sub_0_2407
0x12(ix), h
0x13(ix), 1
0x14(ix), #0
                                                                                                                                             dec
                                                                                                                                            jp
call
ld
                                                                                                                                             1d
  1BEC
                                                                                                                                                                                                                                                                                                                                                      ; CODE XREF: sub 0 1AC3+119<sup>†</sup> i
                                                                       loc_0_1BEC:
                                                                                                                                             call
                                                                                                                                                                              sub_0_239C
loc_0_1C05
                                                                                                                                             jр
  1BF2
1BF2
 1BF2

1BF2 1D

1BF3 C2 05 1C

1BF6 DD 36 10 FF

1BFA DD 36 11 80

1BFE DD CB 07 BE
                                                                        loc_0_1BF2:
                                                                                                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_1AC3+106 j
                                                                                                                                            jp
ld
ld
                                                                                                                                                                             NZ, loc_0_1C05
                                                                                                                                                                              0x10(ix), #0xFF
0x11(ix), #0x80; 'Ç'
7, 7(ix)
                                                                                                                                                                                                                                                                                                                                                      ; un-hflip sprite
                                                                                                                                             res
 1C02 C3 D8 1B
1C05
1C05
1C05
                                                                                                                                                                             loc_0_1BD8
                                                                                                                                             jр
                                                                                                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_1AC3+12C1j
                                                                       loc_0_1C05:
 1C05 CD 1C 2B
1C05
1C08 3D
                                                                                                                                                                                                                                                                                                                                                      ; sub_0_1AC3+130<sup>†</sup>j
                                                                                                                                            call
dec
                                                                                                                                                                              sub_0_2B1C
1008 3D 1009 CA 3A 1C 1000 CA 3A 1F 62 100F 3D 1010 CA 76 1C 1013 3A 14 62 1016 D6 14 1018 C2 33 1C 1018 3E 01 1010 32 1F 62 1020 CD 53 28 1023 A7 1024 CA A6 1D 1020 C2 32 40 63 1024 3E 01 1022 32 01 1022 32 25 62 1032 0
                                                                                                                                                                                                                                                                                                                                                      ; are we jumping?
                                                                                                                                                                              a
Z, loc_0_1C3A
                                                                                                                                             jp
ld
                                                                                                                                                                              a, (unk_0_621F)
                                                                                                                                             dec
jp
ld
                                                                                                                                                                            a, (unk_0_6214)

#0x14

NZ, loc_0_1C33

a, #1

(unk_0_621F), a
                                                                                                                                             sub
                                                                                                                                             jp
ld
                                                                                                                                                                                                                                                                                                                                                      ; peak of the jump
                                                                                                                                             ld
                                                                                                                                                                                                                                                                                                                                                      ; check for bonus points?
; any bonus points?
; no, exit
                                                                                                                                            call
and
                                                                                                                                                                              sub_0_2853
                                                                                                                                                                              a
Z, update_mario_sprite_registers
                                                                                                                                             jp
ld
                                                                                                                                                                              (unk_0_6342), a
a, #1
                                                                                                                                             ld
ld
                                                                                                                                                                                                                                                                                                                                                      ; register bonus
                                                                                                                                                                               (show_bonus_state), a
                                                                                                                                             ld
                                                                                                                                                                              (unk 0 6225), a
 1C32 00
1C33
1C33
1C33 3C
                                                                        loc_0_1C33:
                                                                                                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_1AC3+155<sup>†</sup>j
                                                                                                                                             inc
 1C34 CC 54 29
1C37 C3 A6 1D
1C3A
                                                                                                                                                                              Z, sub_0_2954
update_mario_sprite_registers
                                                                                                                                             call
                                                                                                                                             jp
  1C3A
1C3A

1C3A 05

1C3B CA 4F 1C

1C3E 3C

1C3F 3C 1F 62

1C42 AF

1C43 21 10 62

1C46 06 05

1C48

1C48

1C48

1C48

1C48

1C48

1C48

1C49

                                                                        loc_0_1C3A:
                                                                                                                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_1AC3+146 j
                                                                                                                                                                              Z, loc 0 1C4F
                                                                                                                                             jp
inc
                                                                                                                                            ld
xor
                                                                                                                                                                               (unk_0_621F), a
                                                                                                                                                                              hl, #0x6210
                                                                                                                                             ld
                                                                                                                                            1d
                                                                                                                                                                             b, #5
                                                                        loc_0_1C48:
                                                                                                                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_1AC3+187|j
                                                                                                                                            ld
                                                                                                                                                                              (hl), a
  1C49 2C
1C4A 10 FC
1C4C C3 A6 1D
1C4F
                                                                                                                                                                               loc_0_1C48
                                                                                                                                                                              update_mario_sprite_registers
                                                                                                                                             jр
1C4F
1C4F
1C4F 32 16 62
1C52 3A 20 62
1C55 EE 01
1C57 32 00 62
1C5A 21 07 62
1C5D 7E
                                                                        loc_0_1C4F:
                                                                                                                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_1AC3+178 j
                                                                                                                                                                             (mario_jumping), a
a, (unk_0_6220)
#1
                                                                                                                                             ld
                                                                                                                                             ld
                                                                                                                                             xor
ld
                                                                                                                                                                                  (mario_alive_flag)
                                                                                                                                                                                                                                                                                                                                                      ; set whether mario survives a jump
                                                                                                                                                                             hl, #mario_flipy_tile
a, (hl)
                                                                                                                                             ld
ld
                                                                                                                                                                              a, (h1)
#0x80 ; 'Ç'
#0xF
 1C5D 7E
1C5E E6 80
1C60 F6 0F
1C62 77
1C63 3E 04
1C65 32 1E 62
1C68 AF
                                                                                                                                            and
                                                                                                                                                                                                                                                                                                                                                    ; mario landing character
                                                                                                                                             ld
                                                                                                                                                                              (hl), a a 4
                                                                                                                                            ld
ld
                                                                                                                                                                              a, #4
(unk_0_621E), a
                                                                                                                                             xor
 1C68 AF
1C69 32 1F 62
1C6C 3A 25 62
                                                                                                                                                                              (unk 0 621F)
                                                                                                                                             1d
                                                                                                                                                                              a, (unk_0_6225)
```

```
call
                                                                   Z. sub 0 1D95
1C73 C3 A6 1D
1C76
1C76
                                                                   update_mario_sprite_registers
                                                                                                                                     ; CODE XREF: sub 0 1AC3+14D i
                            loc_0_1C76:
1C76
1C76 3A 05 62
1C79 21 0E 62
1C7C D6 0F
                                                                   a, (mario_x)
hl, #unk_0_620E
#0xF
                                                      14
                                                      sub
1C7E BE
1C7F DA A6 1D
1C82 3E 01
1C84 32 20 62
                                                      cp
jp
ld
ld
                                                                    (hl)
                                                                    C, update_mario_sprite_registers
                                                                    (unk_0_6220), a
1C87 21 84 60
1C8A 36 03
1C8C C3 A6 1D
1C8F
                                                                   hl, #0x6084
(hl), #3
update_mario_sprite_registers
                                                      ld
                                                      jр
1C8F
1C8F

1C8F 06 01

1C91 3A 0F 62

1C94 A7

1C95 C2 D2 1C

1C98 3A 02 62

1C9B 47
                                                                                                                                    ; CODE XREF: sub_0_1AC3+2F<sup>†</sup>j; dY
                            mario_right:
                                                      ld
                                                      1d
                                                                   a, (mario_cell_animate_cntr)
                                                      and
jp
ld
                                                                                                                                     ; time for next sprite?
; no, skip
                                                                   NZ, move_mario_left_right
                                                                   a, (mario_animation_cell)
b, a
a, #5
                                                      ld
1C9B 47
1C9C 3E 05
1C9E CD 09 30
1CA1 32 02 62
1CA4 E6 03
1CA6 F6 80
1CA8 C3 C2 1C
1CAB
                                                      ld
call
                                                                                                                                     ; sprite type = mario running right
                                                                   a, #5
animate_mario_or_barrel_sprite
                                                                                                                                     ; update current cell #
                                                      ld
and
                                                                    (mario_animation_cell), a
                                                                                                                                     ; set flipy
                                                                   update_mario_lr_sprite_data
                                                      jр
1CAB

1CAB

1CAB

1CAB 06 FF

1CAD 3A 0F 62

1CBD A7

1CB1 C2 D2 1C

1CB4 3A 02 62

1CB7 47
                            mario_left:
                                                                                                                                     ; CODE XREF: sub_0_1AC3+38 j
                                                      ld
                                                                   a, (mario_cell_animate_cntr)
                                                      1d
                                                                                                                                     ; time for next sprite?
; no, skip
                                                      and
                                                      jp
ld
                                                                   NZ, move_mario_left_right
                                                                   a, (mario_animation_cell)
b, a
a, #1
                                                      ld
1CB8 3E 01
1CBA CD 09 30
1CBD 32 02 62
1CC0 E6 03
                                                      ld
call
                                                                                                                                     ; sprite type = mario running left
                                                                   a, #1
animate_mario_or_barrel_sprite
                                                                                                                                    ; update current cell #
                                                      ld
                                                                    (mario_animation_cell), a
                                                      and
1CC0 E6 03
1CC2
1CC2
1CC2 21 07 62
1CC5 77
1CC6 1F
1CC7 DC 8F 1D
                                                                                                                                     ; CODE XREF: sub_0_1AC3+1E5<sup>†</sup>j
                            update_mario_lr_sprite_data:
                                                                   hl, #mario_flipy_tile (hl), a
                                                      1d
                                                      14
                                                                                                                                     : set mario sprite
                                                                                                                                     , set marro sprite
; time to play walking sound?
; yes, call
; same sprite for 2 frames
                                                      rra
call
                                                                   C, play_walking_sound
1CCA 3E 02
1CCC 32 0F 62
                                                      ld
                                                                   (mario_cell_animate_cntr), a update_mario_sprite_registers
                                                      14
 1CCF C3 A6 1D
                                                      qŗ
1CD2
1CD2
1CD2
1CD2 21 03 62
                            move_mario_left_right:
                                                                                                                                     ; CODE XREF: sub_0_1AC3+1D2<sup>†</sup>j; sub_0_1AC3+1EE<sup>†</sup>j
                                                                   hl, #mario_y
1CD2
1CD2
1CD5 7E
1CD6 80
1CD7 77
1CD8 3A 27 62
                                                                   a, (hl)
a, b
(hl), a
a, (level_type)
                                                      1d
                                                      add
ld
                                                                                                                                     ; add delta value
                                                      ld
1CDB 3D
                                                      dec
                                                                                                                                     ; girders?
1CDB 3D
1CDC C2 EB 1C
1CDF 66
1CEO 3A 05 62
1CE3 6F
1CE4 CD 33 23
1CE7 7D
                                                      jp
ld
                                                                   NZ, loc_0_1CEB
h, (h1)
                                                                   a, (mario_x)
1, a
                                                      ld
                                                      14
                                                                                                                                     : T.=X
                                                      call
ld
                                                                   adjust_height_on_girders
                                                                                                                                     ; adjusted X
; store
1CE7 7D
1CE8 32 05 62
                                                                   (mario_x), a
                                                      ld
1CEB
1CEB
1CEB 21 OF 62
                                                                                                                                     ; CODE XREF: sub_0_1AC3+219<sup>†</sup>j
                            loc_0_1CEB:
                                                      ld
                                                                   hl, #mario_cell_animate_cntr
1CEE 35
1CEF C3 A6 1D
1CF2
1CF2
                                                      jp
                                                                   update_mario_sprite_registers
1CF2
1CF2
1CF2 3A 0F 62
1CF5 A7
1CF6 C2 8A 1D
1CF9 3E 03
1CFB 32 0F 62
1CFB 3E 07
                                                                                                                                     ; CODE XREF: sub_0_1AC3+7A<sup>†</sup>j; check timer
                            loc_0_1CF2:
                                                                   a, (mario_cell_animate_cntr)
                                                      ld
                                                      and
                                                                                                                                      ; expired?
                                                                   NZ, loc_0_1D8A
                                                      jp
ld
                                                                                                                                     ; no. skip
                                                                    (mario_cell_animate_cntr), a
                                                      ld
1D00 C3 11 1D
                                                                   loc_0_1D11
                                                      jp
1D00 C3 11 1D
1D03 1D03 1D03 1D03 3A 0F 62
1D06 A7 1D07 C2 76 1D
1D0A 3E 04 1D0C 32 0F 62
1D0C 32 0F 62
1D0T 3E FE
                                                                                                                                     ; CODE XREF: sub_0_1AC3+87<sup>†</sup>j; check timer; expired?
                            loc 0 1D03:
                                                      ld
                                                                   a, (mario_cell_animate_cntr)
                                                      and
                                                      jp
ld
                                                                   NZ, loc_0_1D76
                                                                                                                                     ; no, skip
                                                                   α, π∓
(mario_cell_animate_cntr), a
a, #0xFE; '■'
                                                      1d
                                                                                                                                    ; reset timer
1D11
1D11
                            loc 0 1D11:
                                                                                                                                    ; CODE XREF: sub 0 1AC3+23D1i
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
                                                                   hl, #mario_x
a, (hl)
(hl), a
                                                      1d
                                                      add
ld
                                                                   b, a
a, (unk_0_6222)
#1
                                                      ld
                                                      ld
xor
ld
                                                                    (unk_0_6222),
                                                      jp
ld
add
ld
                                                                   NZ, loc_0_1D51
                                                                   a, b
a, #8
1D25 21 1C 62
1D28 BE
                                                                   hl, #unk_0_621C
(hl)
                                                      cp
jp
dec
                                                                                                                                     ; bottom y coordinate of ladder
; stop from climbing
1D29 CA 67 1D
1D2C 2D
1D2D 96
                                                                   Z, loc_0_1D67
                                                                                                                                     ; top y coordinate of ladder
; stop from climbing
                                                                   (h1)
                                                      sub
1D2E CA 67 1D
1D31 06 05
1D33 D6 08
                                                                   Z, loc_0_1D67
b, #5
#8
                                                      sub
1D35 CA 3F 1D
1D38 05
                                                                   Z, loc 0 1D3F
                                                      jp
dec
```

```
Z, loc_0_1D3F
1D3B CA 3F 1D
                                                    jp
dec
1D3E 05
1D3F
1D3F
                                                                                                                               ; CODE XREF: sub_0_1AC3+272<sup>†</sup>j
; sub_0_1AC3+278<sup>†</sup>j
                          loc_0_1D3F:
1D3F 3E 80
                                                                a, #0x80 ; 'C'
hl, #mario_flipy_tile
(hl)
1D3F
                                                    14
1D3F

1D41 21 07 62

1D44 A6

1D45 EE 80

1D47 B0

1D48 77

1D49
                                                    ld
and
                                                                #0x80 ; 'Ç'
                                                                                                                               ; hflip mario
                                                    xor
                                                    or
ld
1D49
                          loc_0_1D49:
                                                                                                                               ; CODE XREF: sub_0_1AC3+2A1 | j
; flag mario climbing a ladder
1D49 3E 01
1D4B 32 15 62
1D4E C3 A6 1D
                                                    ld
ld
                                                                a, #1
(mario_climbing)
update mario sprite registers
                                                    jр
                          loc_0_1D51:
                                                                                                                               ; CODE XREF: sub_0_1AC3+25C<sup>†</sup> j
                                                    dec
                                                    dec
                                                                1
                                                               a, (hl)
                                                    ld
                                                    or
                                                    res
                                                                a, (unk_0_6224)
                                                    ld
ld
                                                    xor
                                                                 (unk_0_6224), a
                                                    14
                                                                 Z, play_walking_sound loc_0_1D49
                                                    call
jp
1D67
1D67
1D67 3E 06
1D67
                                                                                                                               ; CODE XREF: sub_0_1AC3+266†j
; sub_0_1AC3+26B†j
; mario climbing character
                          loc_0_1D67:
1D67
1D69 32 07 62
1D6C AF
1D6D 32 19 62
1D70 32 15 62
1D73 C3 A6 1D
1D76
1D76
                                                                a. #6
                                                    ld
                                                    ld
xor
ld
                                                                (mario_flipy_tile), a
                                                                 (unk_0_6219),
                                                                (mario_climbing), a
update_mario_sprite_registers
                                                                                                                               ; flaf not climbing a ladder
                                                    ld
1D76
1D76 3A 1A 62
1D79 A7
                                                                                                                               ; CODE XREF: sub_0_1AC3+244 j
                          loc_0_1D76:
                                                    ld
and
                                                                a, (unk_0_621A)
                                                                a
Z, loc_0_1D8A
(unk_0_6219), a
a, (unk_0_621C)
#0x13
1D79 A7
1D7A CA 8A 1D
1D7D 32 19 62
1D80 3A 1C 62
1D83 D6 13
1D85 21 05 62
1D88 BE
1D89 D0
1D8A
1D8A
                                                    jp
ld
                                                    ld
                                                    sub
                                                                hl, #mario_x
(hl)
NC
                                                    1d
1D8A
1D8A 21 OF 62
1D8A
1D8D 35
                                                                                                                               ; CODE XREF: sub_0_1AC3+233<sup>†</sup>j
; sub_0_1AC3+2B7<sup>†</sup>j
                          loc 0 1D8A:
                                                                hl, #mario_cell_animate_cntr(hl)
                                                    ld
                                                    dec
1D8E C9
1D8E
1D8E
                           ret; End of function sub_0_1AC3
1D8F
                           ; SUBROUTINE
1D8F
                                                                                                                               ; CODE XREF: sub_0_1AC3+204\uparrow p ; sub_0_1AC3+29E\uparrow p ; tmr=3
                          play_walking_sound:
1D8F
1D8F 3E 03
                                                    ld
ld
                                                                a, #3
(digital_snd_tmr_walk), a
       32 80 60
1D94 C9
                                                    ret
                           ; End of function play_walking_sound
1D94
1D95
1D95
1D95
1D95
1D95
                                                  SUBROUTINE
                                                                                                                               ; CODE XREF: sub_0_1A33+86<sup>p</sup>; sub_0_1AC3+1AD<sup>p</sup>
                          sub_0_1D95:
1D95 32 25 62
1D95 1D98 3A 27 62
1D9B 3D
                                                    ld
ld
                                                                (unk_0_6225), a
                                                                a, (level_type)
1D9B 3D
1D9C C8
1D9D 21 8A 60
1DA0 36 0D
1DA2 2C
1DA3 36 03
1DA5 C9
1DA5
1DA5
1DA6
1DA6
1DA6
1DA6
1DA6
                                                    dec
                                                    ret
ld
ld
                                                                hl, #unk_0_608A
(hl), #0xD
                                                    inc
                                                    1d
                                                                (hl), #3
                                                    ret
                           ; End of function sub_0_1D95
                                                                                                                               ; CODE XREF: sub_0_1AC3+A8†j
; sub_0_1AC3+161†j ...
; sprite #19
                          update_mario_sprite_registers:
1DA6 21 4C 69
1DA6
1DA9 3A 03 62
1DAC 77
                                                                hl, #soft_sprite_ram+0x4C
                                                    ld
                                                                a, (mario_y)
(hl), a
ld
                                                                a, (mario_flipy_tile)
1
                                                    ld
inc
                                                                (hl),
                                                                a, (mario_flipx_colour)
                                                    ld
                                                    inc
ld
ld
                                                                 (hl), a
                                                                a, (mario_x)
                                                    inc
1DBB 77
1DBC C9
                                                    ld
ret
                                                                 (hl), a
1DBD
                                                 SUBROUTINE
1DBD
1DBD
1DBD
                                                                                                                               ; CODE XREF: 0000:127C1p
                          check and handle bonus:
1DBD
1DBD 3A 40 63
1DBD
1DC0 EF
                                                                                                                               ; 0000:1641<sup>p</sup> ...
                                                                a, (show_bonus_state)
0x28
                                                    rst
                                                                                                                               ; go!
1DC1 49 1E
                                                    .dw no_bonus
```

```
1DC3 C9 1D
                                                                                             .dw show_bonus
1DC5 4A 1E
1DC7 00
1DC8 00
1DC9
1DC9
                                                                                              .dw remove bonus
                                                                                              .db
                                                                                                                0 ;
0 ;
1DC9

1DC9

1DC9 3E 40

1DCB 32 41 63

1DCE 3E 02

1DD0 32 40 63

1DD3 3A 42 63

1DD6 1F

1DD7 DA 70 3E
                                                show_bonus:
                                                                                                                                                                                                                                    ; DATA XREF: check_and_handle_bonus+6↑o
                                                                                                                   a, #0x40 ; '@'
(show_bonus_timer), a
                                                                                            ld
ld
                                                                                             ld
                                                                                                                   (show_bonus_state), a
a, (unk_0_6342)
                                                                                             ld
ld
                                                                                             rra
 1DD6 1F
1DD7 DA 70 3E
1DDA 1F
1DDB DA 00 1E
                                                                                             jp
rra
                                                                                                                   C, loc_0_3E70
                                                                                                                   C, award_300_pts
                                                                                             jр
                                                                                             rra
                                                                                                                   C, award_random_bonus
hl, #digital_snd_tmr_barrel_jump_priz
(hl), #3
1DDE 1F | 1DDF DA F5 1D 1DE2 21 85 60 1DE5 36 03 | 1DE7 3A 29 62 1DEA 3D | 1DE7 3D 1DE
 1DDE
                                                                                             jp
ld
ld
                                                                                                                   a, (level)
                                                                                             ld
                                                                                             dec
jp
  1DEB CA 00 1E
                                                                                                                   Z, award_300_pts
 1DEE 3D
1DEF CA 08 1E
                                                                                                                   a
Z, award_500_pts
                                                                                             jp
jp
1DF2 C3 10 1E
1DF5
1DF5
                                                                                                                   award_800_pts
 1DF5
                                                award_random_bonus:
                                                                                                                                                                                                                                    ; CODE XREF: check_and_handle_bonus+22<sup>†</sup> j
 1DF5
1DF5 3A 18 60
1DF8 1F
1DF9 DA 08 1E
                                                                                             ld
rra
                                                                                                                   a, (random_no)
                                                                                                                                                                                                                                        50% chance for 500 pts
award 500 pts
25% chance for 800 pts
award 800 pts
                                                                                                                   C, award_500_pts
                                                                                             qį
                                                                                              rra
 1DFC 1F
1DFD DA 10 1E
1E00
                                                                                             jp
                                                                                                                   C, award_800_pts
                                                                                                                                                                                                                                   ; CODE XREF: check_and_handle_bonus+1E[]; check_and_handle_bonus+2E[];
; '300' sprite tile
; award 3 (300) points
 1E00
                                               award 300 pts:
1E00 06 7D
1E00 TE00 1E02 11 03
                                                                                             ld
ld
                                                                                                                   b, #0x7D ; '}'
 1E02 11 03 00
1E05 C3 15 1E
                                                                                                                   award points
                                                                                             jр
                                                                                                                                                                                                                                    ; CODE XREF: check_and_handle_bonus+321j
; check_and_handle_bonus+3C1j
; '500' sprite tile
; award 5 (500) points
                                                award 500 pts:
 1E08
 1E08 06 7E
                                                                                                                   b, #0x7E ; '~'
de, #5
                                                                                            ld
ld
 1EOA 11 05 00
1EOD C3 15 1E
                                                                                             jр
                                                                                                                   award points
1E10
1E10
1E10
1E10 06 7F
                                                                                                                                                                                                                                        CODE XREF: check_and_handle_bonus+351j
check_and_handle_bonus+401j
'800' sprite tile
add_bonus_and_update_high_score (800)
                                                award_800_pts:
 1E10
1E12 11 08 00
1E15
                                                                                                                   b, #0x7F; ''de, #8
                                                                                                                                                                                                                                    ; CODE XREF: check_and_handle_bonus+48fj
; check_and_handle_bonus+50fj
; 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
hl, (unk_0_6343)
a, (hl)
 1E15
1E18 2A 43 63
                                                                                            call
ld
                                                                                            ld
ld
inc
1E18 ZA 43
1E1B 7E
1E1C 36 00
1E1E 2C
1E1F 2C
1E2O 2C
                                                                                                                   a, (hl)
(hl), #0
                                                                                             inc
                                                                                             inc
                                                                                                                   c, (hl)
loc_0_1E36
                                                                                                                                                                                                                                    ; get y position
; program award sprite
                                                                                             ld
                                                                                             jр
 1E25
1E25 11 01 00
                                                                                            ld
                                                                                                                   de, #1
                                                                                                                                                                                                                                    ; add_bonus_and_update_high_score (100)
 1E28
1E28
                                                                                                                                                                                                                                        CODE XREF: 0000:3E76|j
                                                loc_0_1E28:
1E28 CD 9F 30
1E28
                                                                                                                                                                                                                                    ; 0000:3E7E | j
                                                                                            call
ld
add
                                                                                                                   queue_fg_vector_fn
a, (mario_x)
a, #0x14
                                                                                                                                                                                                                                    ; schedule award points
 1E2B 3A 05 62
1E2E C6 14
1E2E C6 14
1E30 4F
1E31 3A 03 62
1E34 00
1E35 00
1E36 1E36
1E36 21 30 6A
1E39 77
1E3A 2C
1E3B 70
1E3C 2C
1E3B 70
1E3C 3C
                                                                                             1d
                                                                                                                   c, a
a, (mario_y)
                                                                                             ld
                                                                                            nop
                                                loc_0_1E36:
                                                                                                                                                                                                                                   ; CODE XREF: check_and_handle_bonus+65<sup>†</sup>j
; add bonus points sprite to display
                                                                                                                  hl, #soft_sprite_ram+0x130
(hl), a
                                                                                             ld
                                                                                             1d
                                                                                              ld
                                                                                                                     (hl), b
                                                                                             inc
ld
1E3C 2C
1E3D 36 07
1E3F 2C
1E40 71
1E41 3E 05
1E43 F7
1E44 21 85 60
1E47 36 03
1E49
                                                                                                                    (hl), #7
                                                                                             inc
ld
                                                                                                                   (h1), c
a, #5
0x30
                                                                                             ld
                                                                                                                                                                                                                                    ; return if level bit not set
                                                                                             rst
                                                                                                                   hl, #digital_snd_tmr_barrel_jump_priz
(hl), #3
                                                                                             ld
 1E49
                                               no_bonus:
                                                                                                                                                                                                                                    ; DATA XREF: check_and_handle_bonus+4 o
 1E49 C9
1E49
1E49
                                                ret
; End of function check_and_handle_bonus
1E4A
1E4A
1E4A
                                               remove_bonus:
                                                                                                                                                                                                                                    ; DATA XREF: check_and_handle_bonus+8<sup>o</sup>
 1E4A
              21 41 63
                                                                                             1d
                                                                                                                   hl. #show bonus timer
1E4A 21 41 63

1E4D 35

1E4E C0

1E4F AF

1E50 32 30 6A

1E53 32 40 63

1E56 C9
                                                                                                                   (hl)
NZ
                                                                                            dec
                                                                                             xor
                                                                                             ld
                                                                                                                    (soft_sprite_ram+0x130), a
                                                                                            ld
ret
                                                                                                                    (show_bonus_state), a
 1E57
1E57
                                                                                          SUBROUTINE II
                                                                                                                                                                                                                                  ; CODE XREF: 0000:1989 p
 1E57
                                                sub_0_1E57:
 1E57 3A 27 62
1E5A CB 57
1E5C C2 80 1E
                                                                                            ld
bit
                                                                                                                   a, (level_type)
                                                                                                                   2, a
NZ, loc_0_1E80
                                                                                             jр
1E5F 1F
1E60 3A 05 62
                                                                                             rra
ld
                                                                                                                   a, (mario_x)
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
       1E63 DA 7A 1E
                                                                                                                                                                                                                      C, loc_0_1E7A
                                                                                                                                                                              jр
                                                                                                                                                                             cp
ret
ld
rla
                                                                                                                                                                                                                       #0x51 ;
       1E66 FE 51
       1E68 D0
1E69 3A 03 62
1E6C 17
                                                                                                                                                                                                                      a, (mario_y)
       1E6D
     1E6D | 1E6D | 3E 00 | 1E6F DA 74 | 1E 1E72 | 3E 80 | 1E74 | 1E74 | 32 4D 69 | 1E7A | 1
       1E6D
                                                                                           loc_0_1E6D:
                                                                                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: sub_0_1E57+26 | j
                                                                                                                                                                                                                     a, #0
C, loc_0_1E74
a, #0x80; 'Ç
                                                                                                                                                                              ld
                                                                                                                                                                              jp
ld
                                                                                                                                                                                                                                                                                                                                                                                                                                ; CODE XREF: sub_0_1E57+18<sup>†</sup>j
                                                                                             loc_0_1E74:
                                                                                                                                                                                                                       (soft_sprite_ram+0x4D), a
                                                                                                                                                                              ld
                                                                                                                                                                              jр
                                                                                                                                                                                                                      loc 0 1E85
                                                                                                                                                                                                                                                                                                                                                                                                                                 ; CODE XREF: sub_0_1E57+C^j
                                                                                           loc 0 1E7A:
      1E7A FE 31
1E7C D0
1E7D C3 6D 1E
                                                                                                                                                                              cp
ret
                                                                                                                                                                                                                      #0x31 ; '1'
                                                                                                                                                                                                                      loc_0_1E6D
                                                                                                                                                                              jр
       1E80
1E80 3A 90 62
1E83 A7
1E84 C0
1E85
                                                                                             loc_0_1E80:
                                                                                                                                                                                                                                                                                                                                                                                                                                ; CODE XREF: sub_0_1E57+5^j
                                                                                                                                                                             1d
                                                                                                                                                                                                                      a, (unk 0 6290)
                                                                                                                                                                              and
                                                                                                                                                                                                                      NZ
     1E85
1E85 3E 16
1E87 32 0A 60
1E8A E1
1E8B C9
                                                                                           loc 0 1E85:
                                                                                                                                                                                                                                                                                                                                                                                                                               ; CODE XREF: sub 0 1E57+201j
                                                                                                                                                                              14
                                                                                                                                                                                                                      a #0x16
                                                                                                                                                                              ld
                                                                                                                                                                                                                         (main_sequencer), a
                                                                                                                                                                              pop
ret
     1E8B C9

1E8B

1E8C

1E9C

1E9
                                                                                             ; End of function sub_0_1E57
                                                                                                                                                                         SUBROUTINE
                                                                                           sub_0_1E8C:
                                                                                                                                                                                                                                                                                                                                                                                                                               ; CODE XREF: 0000:197D\p
                                                                                                                                                                              ld
                                                                                                                                                                                                                     a. (unk 0 6350)
                                                                                                                                                                             and
ret
call
                                                                                                                                                                                                                      sub 0 1E96
                                                                                             pop hl ret; End of function sub_0_1E8C
       1E95 C9
1E95
1E95
       1E96
       1E96
1E96
                                                                                                                                                                         SUBROUTINE
       1E96
      1E96
1E96 3A 45 63
1E99 EF
                                                                                             sub_0_1E96:
                                                                                                                                                                                                                                                                                                                                                                                                                                ; CODE XREF: sub_0_1E8C+5\(^1\)p
                                                                                                                                                                                                                                      (unk_0_6345)
                                                                                                                                                                                                                      a, (1
0x28
                                                                                                                                                                                                                                                                                                                                                                                                                                 ; go!
                                                                                                                                                                             rst
       1E99
      1E9A A0 1E
1E9C 09 1F
1E9E 23 1F
                                                                                                                                                                              .dw loc_0_1EA0
.dw loc_0_1F09
.dw loc_0_1F23
                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Jump table
      1EA0
1EA0
1EA0
1EA0
                                                                                           loc_0_1EA0:
                                                                                                                                                                                                                                                                                                                                                                                                                                  ; DATA XREF: sub_0_1E96+4↑o
    1EA0 1EA0 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 1EB4 1EB4
                                                                                                                                                                              ld
                                                                                                                                                                                                                                      (unk_0_6352)
                                                                                                                                                                                                                                                                                                                                                                                                                                 ; hammer just hit something
                                                                                                                                                                                                                    #0x65; 'e'
hl, #soft_sprite_ram+0xB8
Z, loc_0_1EB4
The sprite_ram+0xD0
                                                                                                                                                                              cp
                                                                                                                                                                                                                                                                                                                                                                                                                                ; process hammer hit effect (start)
                                                                                                                                                                              jp
1d
                                                                                                                                                                                                                     hl, #soft_sprite_ram+0xD0
                                                                                                                                                                                                                                                                                                                                                                                                                               ; fireball area in sprite ram
                                                                                                                                                                                                                     C, loc_0_1EB4
hl, #soft_sprite_ram+0x80
                                                                                                                                                                                                                                                                                                                                                                                                                                ; CODE XREF: sub_0_1E96+12<sup>†</sup>j; sub_0_1E96+18<sup>†</sup>j
       1EB4
                                                                                         loc_0_1EB4:
      1EB4 DD 2A 51 63
1EB4
1EB8 16 00
                                                                                                                                                                                                                     ix, (unk_0_6351) d, #0
                                                                                                                                                                              ld
      1EBA 3A 53 63
1EBD 5F
1EBE 01 04 00
1EC1 3A 54 63
                                                                                                                                                                                                                     a, (unk_0_6353)
                                                                                                                                                                             ld
ld
ld
ld
                                                                                                                                                                                                                      bc, #4
                                                                                                                                                                                                                      a, (unk_0_6354)
      1EC4 A7
1EC5 CA CF 1E
1EC8
                                                                                                                                                                              and
                                                                                                                                                                              jр
                                                                                                                                                                                                                      Z, loc_0_1ECF
     1EC8
1EC8
1EC8
09
1EC9 DD 19
1ECB 3D
1ECC C2 C8 1E
1ECF
1ECF DD 36 00
                                                                                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: sub 0 1E96+36-i
                                                                                          loc_0_1EC8:
                                                                                                                                                                             add
add
                                                                                                                                                                                                                    hl, bc
ix, de
                                                                                                                                                                              dec
                                                                                                                                                                                                                     NZ, loc_0_1EC8
                                                                                                                                                                              jp
                                                                                                                                                                                                                                                                                                                                                                                                                               ; CODE XREF: sub_0_1E96+2Ffj
     1ECF DD 36 00 00 1ED3 DD 7E 15 1ED6 A7 1ED7 3E 02 1ED9 CA DE 1E
                                                                                                                                                                                                                     0(ix), #0
a, 0x15(ix)
a
                                                                                                                                                                              ld
ld
                                                                                                                                                                                                                     a, #2
Z, loc_0_1EDE
                                                                                                                                                                              ld
                                                                                                                                                                              jp
ld
      1EDC 3E 04
1EDE
1EDE
1EDE 32 42 63
                                                                                                                                                                                                                     a, #4
                                                                                           loc_0_1EDE:
                                                                                                                                                                                                                                                                                                                                                                                                                                ; CODE XREF: sub_0_1E96+43 j
     TEDE 32 42 63
TEET 01 2C 6A
TEET 702
TEES 36 00
TEES 0C
TEES 2C
TEES 0C
TEES 0
                                                                                                                                                                                                                       (unk 0 6342), a
                                                                                                                                                                              ld
                                                                                                                                                                             ld
ld
ld
                                                                                                                                                                                                                     \text{\text{dim_0_0342}}, \text{\text{a}} \text{bc, \psison} \text{\text{soft_sprite_ram+0x12C}} \text{a, (h1)} \text{(h1), \psi0 (bc), a}
                                                                                                                                                                              ld
                                                                                                                                                                                                                                                                                                                                                                                                                                ; flash sprite x coord
                                                                                                                                                                             inc
inc
                                                                                                                                                                                                                                 #0x60 ; '`'
                                                                                                                                                                                                                                                                                                                                                                                                                                ; initial hit sprite character ; flash sprite character
                                                                                                                                                                                                                     (bc), a
                                                                                                                                                                              ld
```

a, #0xC (bc), a

(hl)

(hl), #6

(bc), a hl, #unk\_0\_6345 (hl)

; flash sprite y coord

ld ld inc

ld ld ld

inc

ld

1EFA 2C 1EFB 36 06

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
  1EFD 2C
 1EFD 2C
1EFE 36 05
1F00 21 8A 60
1F03 36 06
1F05 2C
1F06 36 03
1F08 C9
1F08
1F08
                                                                                  (h1), #5
h1, #unk_0_608A
(h1), #6
                                                                   ld
                                                                   ld
ld
                                                                                   (hl), #3
                                                                   ld
                                   ret; End of function sub_0_1E96
1F09
1F09
1F09
1F09 21 46 63
1F0C 35
                                                                                                                                                                   ; DATA XREF: sub_0_1E96+6↑o ; process hammer hit effect (middle)
                                   loc_0_1F09:
 1F09 21 46 63
1F0C 35
1F0C 00
1F0E 36 06
1F10 2C
1F11 35
1F12 CA 1D 1F
1F15 21 2D 6A
1F18 7E
1F19 EE 01
1F1B 77
1F1C C9
1F1D
1F1D 1F1D
1F1D 36 04
1F1F 2D
1F21 34
1F22 C9
1F23
                                                                                  hl, #unk_0_6346
                                                                   ld
                                                                   dec
ret
ld
                                                                                    (h1)
                                                                                   NZ
(hl), #6
                                                                   inc
                                                                                    (hl)
                                                                   dec
                                                                   jp
ld
                                                                                   Z, loc_0_1F1D
hl, #0x6A2D
                                                                                   a, (hl)
#1
                                                                   ld
                                                                   xor
ld
                                                                                                                                                                   ; animate hit flash
                                                                                   (hl), a
                                                                   ret
                                                                                                                                                                   ; CODE XREF: 0000:1F12<sup>†</sup>j
                                   loc_0_1F1D:
                                                                                   (hl), #4
                                                                   ld
                                                                   dec
dec
inc
                                                                                   (hl)
                                                                   ret
 loc_0_1F23:
                                                                                                                                                                    ; DATA XREF: sub_0_1E96+8↑o
                                                                                  hl, #unk_0_6346
(hl)
                                                                                                                                                                   ; process hammer hit effect (end)
                                                                   ld
                                                                   dec
ret
ld
                                                                                   NZ
(hl), #0xC
                                                                   inc
                                                                                  1
(h1)
Z, loc_0_1F34
h1, #soft_sprite_ram+0x12D
(h1)
                                                                   dec
jp
ld
                                                                   inc
                                                                                                                                                                   ; animate hit flash
                                                                                                                                                                   ; CODE XREF: 0000:1F2C1 i
                                   loc 0 1F34:
                                                                   dec
dec
                                                                   xor
                                                                   ld
ld
                                                                                    (hl).
                                                                                    (unk_0_6350), a
                                                                                                                                                                   ; stop effect process
                                                                   inc
ld
                                                                                   (show_bonus_state), a
hl, #soft_sprite_ram+0x12C
(unk_0_6343), hl
                                                                   ld
ld
                                                                   ret
 1F46

1F46

1F46

1F46

1F46

1F46

1F46 3A 21 62

1F49 A7

1F4A C8

1F4B AF

1F4C 32 04 62

1F55 32 10 62

1F55 32 10 62

1F58 32 11 62

1F58 32 12 62

1F58 32 12 62

1F58 32 14 62

1F61 32 14 62

1F61 32 14 62

1F68 32 16 62

1F68 32 06 62

1F71 C9

1F71 C9

1F71 C9

1F71 C9

1F71 C9
                                                                   SUBROUTINE
                                   sub_0_1F46:
                                                                                                                                                                   ; CODE XREF: 0000:19A41p
                                                                   ld
and
                                                                                   a, (unk_0_6221)
                                                                                   a
Z
                                                                   ret
                                                                                   a (unk_0_6204), a (unk_0_6206), a (unk_0_6221), a (unk_0_6211), a (unk_0_6211), a (unk_0_6212), a (unk_0_6212), a
                                                                   ld
ld
ld
ld
ld
                                                                   ld
ld
                                                                                    (unk 0 6213).
                                                                                    (unk_0_6214), a
                                                                   inc
ld
                                                                                   a
  (mario_jumping), a
  (unk_0_621F), a
a, (mario_x)
  (unk_0_620E), a
                                                                   ld
ld
ld
                                                                   ret
                                   ; End of function sub_0_1F46
1F72

1F72

1F72

1F72

1F72

1F72 3A 27 62

1F75 3D

1F76 C0

1F76 DD 21 00 67

1F78 D1 80 69

1F78 11 20 00

1F81 06 0A

1F83

1F83

1F83
                                                                SUBROUTINE
                                                                                                                                                                   ; CODE XREF: 0000:1983 p
                                   sub_0_1F72:
                                                                   ld
                                                                                   a, (level_type)
a
                                                                   dec
ret
ld
                                                                                   ix, #unk_0_6700
                                                                   ld
ld
ld
                                                                                   hl, #soft_sprite_ram+0x80
de, #0x20; ''
b, #0xA
 1F83
1F83 DD 7E 00
1F86 3D
                                   loc_0_1F83:
                                                                                                                                                                   ; CODE XREF: sub_0_1F72+1E|j
                                                                   ld
                                                                                   a, 0(ix)
1F86 3D /E 00
1F87 CA 93 1F
1F87 CC 93 1F
1F8B 2C
1F8C 2C
1F8D
                                                                   dec
                                                                                   a
Z, loc_0_1F93
                                                                   jp
inc
inc
                                                                   inc
                                   loc_0_1F8D:
                                                                                                                                                                   ; CODE XREF: 0000:21CE|j
                                                                   inc
add
1F8E DD 19
1F90 10 F1
1F92 C9
1F93
1F93
                                                                                   ix, de
loc_0_1F83
                                                                   djnz
ret
```

; CODE XREF: sub\_0\_1F72+15 j

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

1F9A DD 7E 02

loc\_0\_1F93:

ld

dec

jp ld a, 1(ix)

a Z, loc\_0\_20EC

```
1F9D 1F
                                                                      rra
                                                                      jp
rra
jp
rra
 1F9E DA AC 1F
                                                                                       C. loc 0 1FAC
 1FA1 1F
1FA2 DA E5 1F
1FA5 1F
                                                                                       C, loc_0_1FE5
 1FA6 DA EF 1F
1FA9 C3 53 20
                                                                                       C, loc_0_1FEF
                                                                      qį
qį
1FAC
1FAC
1FAC
1FAC D9
1FAD DD 34 05
1FBO DD 7E 17
                                    loc 0 1FAC:
                                                                                                                                                                           ; CODE XREF: sub 0 1F72+2C1 j
                                                                      exx
inc
ld
                                                                                       5(ix)
a, 0x17(ix)
5(ix)
NZ, loc_0_1FCE
1FB3 DD BE 05
1FB6 C2 CE 1F
1FB9 DD 7E 15
1FBC 07
                                                                      cp
jp
ld
                                                                                       NZ, loc_0_1
a, 0x15(ix)
                                                                      rlca
1FBC 07

1FBD 07

1FBE C6 15

1FC0 DD 77 07

1FC3 DD 7E 02

1FC6 EE 07

1FC8 DD 77 02

1FCB C3 BA 21
                                                                      rlca
add
ld
ld
                                                                                       a, #0x15
7(ix), a
a, 2(ix)
#7
                                                                                            #0x15
                                                                                                                                                                           ; switch downwards (sideways) barrel to rolling barrel
                                                                      xor
ld
                                                                                        2(ix),
                                                                                       loc 0 21BA
                                                                      qŗ
 1FCE
1FCE
1FCE
1FCE DD 7E 0F
1FCE
                                                                                                                                                                            ; CODE XREF: sub_0_1F72+44<sup>†</sup> j ; sub_0_1F72+199<sup>‡</sup> j
                                     loc_0_1FCE:
                                                                      14
                                                                                       a, 0xF(ix)
1FCE
1FD1 3D
1FD2 C2 DF 1F
1FD5 DD 7E 07
1FD8 EE 01
1FDA DD 77 07
1FDD 3E 04
1FDF
                                                                      dec
jp
ld
                                                                                       a
NZ, loc_0_1FDF
a, 7(ix)
                                                                                                                                                                           ; animate sideways barrel sprite
                                                                      xor
ld
ld
                                                                                       7(ix), a
                                                                                       a, #4
1FDF
1FDF DD 77 OF
1FE2 C3 BA 21
                                    loc_0_1FDF:
                                                                                                                                                                           ; CODE XREF: sub_0_1F72+60 j
                                                                                       0xF(ix), a
loc_0_21BA
                                                                      ld
                                                                      jр
1FE5
1FE5
1FE5 D9
1FE6 01 00 01
1FE9 DD 34 03
1FEC C3 F6 1F
1FEF
                                     loc_0_1FE5:
                                                                                                                                                                            ; CODE XREF: sub_0_1F72+30 j
                                                                      exx
                                                                                       bc, #0x100
                                                                      ld
                                                                                       3(ix)
loc_0_1FF6
                                                                      jр
 1FEF
1FEF
1FEF D9
1FFF 01 04 FF
1FF3 DD 35 03
1FF6
1FF6 DD 66 03
                                     loc_0_1FEF:
                                                                                                                                                                            ; CODE XREF: sub_0_1F72+34 j
                                                                      exx
                                                                                       bc, #0xFF04
                                                                      ld
                                                                                        3(ix)
                                    loc_0_1FF6:
                                                                                                                                                                           ; CODE XREF: sub_0_1F72+7A j
1FF6 DD 66 03
1FF9 DD 6E 05
1FFC 7C
1FFD E6 07
                                                                                       h, 3(ix)
1, 5(ix)
a, h
#7
                                                                      1d
                                                                      ld
ld
                                                                      and
1FFF FE 03
2001 CA 5F 21
2004 2D
2005 2D
                                                                      cp
jp
dec
dec
dec
                                                                                       Z, loc_0_215F
2005 2D
2006 2D
2007 CD 33 23
200A 2C
200B 2C
200C 2C
200D 7D
2011 CD DE 23
2014 CD B4 24
2017 DD 7E 03
201A FE 1C
201C DA 2F 20
201F FE E4
2021 DA BA 21
2024 AF
2025 DD 77 10
                                                                      call
inc
inc
inc
                                                                                       adjust_height_on_girders
                                                                      ld
ld
                                                                                       a, 1
5(ix),
                                                                                       sub_0_23DE
sub_0_24B4
a, 3(ix)
#0x1C
                                                                      call
call
ld
                                                                                       C, loc_0_202F
#0xE4; '6'
                                                                      ср
                                                                      jp
cp
jp
                                                                                       C, loc_0_21BA
2024 AF
2025 DD 77 10
2028 DD 36 11 60
202C C3 38 20
202F
                                                                      xor
                                                                                       0x10(ix), a
0x11(ix), #0x60; '`'
loc_0_2038
                                                                      ld
ld
                                                                      jр
202F
202F
202F AF
                                  loc_0_202F:
                                                                                                                                                                           ; CODE XREF: sub_0_1F72+AA^jj
202F AF
2030 DD 36 10 FF
2034 DD 36 11 A0
2038
2038 loc_0_2038:
2038 DD 36 12 FF
203C DD 36 13 F0
2040 DD 77 14
2043 DD 77 0E
2046 DD 77 04
2049 DD 77 06
2040 DD 36 02 08
2050 C3 BA 21
2053
                                                                      xor
                                                                                       0x10(ix), #0xFF
0x11(ix), #0xA0 ; 'á'
                                                                      ld
                                                                                                                                                                           ; CODE XREF: sub 0 1F72+BA j
                                                                                       0x12(ix), #0xFF
0x13(ix), #0xF0; '-'
0x14(ix), a
0xE(ix), a
                                                                      ld
                                                                      ld
ld
ld
                                                                      ld
ld
ld
                                                                                       4(ix), a
6(ix), a
                                                                                        2(ix)
                                                                                       loc_0_21BA
                                                                      αĖ
2053
2053
2053
                                    loc_0_2053:
                                                                                                                                                                          ; CODE XREF: sub_0_1F72+37 j
2053 D9 2054 D9 23
2057 CD 2F 2A
2057 CD 2F 2A
2058 C7 83 20
2058 D7 7E 03
2061 C6 08
2063 FE 10
2065 DA 79 20
2068 CD B4 24
2068 DD 7E 10
2066 E6 01
2070 07
                                                                      exx
                                                                      call
call
and
                                                                                       sub_0_239C
sub_0_2A2F
                                                                      jp
ld
add
                                                                                       NZ, loc_0_2083
                                                                                       a, 3(ix)
a, #8
#0x10
                                                                      cp
jp
call
ld
and
                                                                                            loc 0 2079
                                                                                       sub_0_24B4
a, 0x10(ix)
#1
 2070
2071
2072
                                                                      rlca
rlca
                                                                      ld
                                                                      call
                                                                                       sub_0_23DE
loc_0_21BA
 2073 CD DE 23
 2076 C3 BA 21
```

```
2079
 2079
 2079
                                  loc_0_2079:
                                                                                                                                                                  ; CODE XREF: sub_0_1F72+F3 j
2079 AF
2079 AF
207A DD 77 00
207D DD 77 03
2080 C3 BA 21
2083
2083
                                                                  xor
ld
                                                                                   a
O(ix), a
                                                                   ld
                                                                                   3(ix),
                                                                                   loc 0 21BA
2083
2083 DD 34 0E
2086 DD 7E 0E
2089 3D
                                  loc 0 2083:
                                                                                                                                                                  ; CODE XREF: sub 0 1F72+E91j
                                                                                  0xE(ix)
a, 0xE(ix)
                                                                  ld
dec
208A CA A2 20
208D 3D
208E CA C3 20
2091 DD 7E 10
                                                                   jp
dec
jp
ld
                                                                                   Z, loc_0_20A2
                                                                                  Z, loc_0_20C3
a, 0x10(ix)
2091 DD 7E 10
2094 3D
2095 3E 04
2097 C2 9C 20
209A 3E 02
209C
209C
209C DD 77 02
209F C3 BA 21
                                                                                  a, #4
NZ, loc_0_209C
                                                                  dec
1d
                                                                   jp
ld
                                                                                   a. #2
                                   loc_0_209C:
                                                                                                                                                                   ; CODE XREF: sub_0_1F72+125 j
                                                                   ld
                                                                                  2(ix), a
loc_0_21BA
                                                                   jp
209F C3 BA 21
20A2
20A2
20A2
20A2 DD 7E 15
                                  loc_0_20A2:
                                                                                                                                                                   ; CODE XREF: sub 0 1F72+118 j
                                                                  ld
and
                                                                                   a, 0x15(ix)
20A2 DD 7E 15
20A5 A7
20A6 C2 B5 20
20A9 21 05 62
20AC DD 7E 05
20AF D6 16
20B1 BE
20B2 D2 C3 20
                                                                                   a
NZ, loc_0_20B5
                                                                   jp
ld
                                                                                  hl, #mario_x
a, 5(ix)
#0x16
                                                                   1d
                                                                   sub
                                                                                                                                                                  ; check har far mario has fallen when jumping
                                                                                   (h1)
                                                                   ср
                                                                                   NC. loc 0 20C3
                                                                   jр
20B5 20B5 20B5 DD 7E 10
                                  loc_0_20B5:
                                                                                                                                                                  ; CODE XREF: sub_0_1F72+134 j
                                                                   ld
                                                                                  a, 0x10(ix)
20B8 A7
20B9 C2 E1 20
20BC DD 77 11
20BF DD 36 10 FF
                                                                   and
                                                                                  NZ, loc_0_20E1
0x11(ix), a
0x10(ix), #0xFF
                                                                   ld
20C3
20C3
20C3 CD 07 24
20C3
                                                                                                                                                                   ; CODE XREF: sub_0_1F72+11C<sup>†</sup>j; sub_0_1F72+140<sup>†</sup>j ...
                                  loc_0_20C3:
                                                                   call
                                                                                   sub 0 2407
                                                                  srl
rr
srl
 20C6 CB 3C
20C6 CB 3C
20C8 CB 1D
20CA CB 3C
20CC CB 1D
20CE DD 74 12
20D1 DD 75 13
20D4 AF
                                                                  rr
ld
ld
                                                                                   0x12(ix), h
0x13(ix), l
                                                                   xor
20D4 AF
20D5 DD 77 14
20D8 DD 77 04
20DB DD 77 06
20DE C3 BA 21
                                                                                  0x14(ix), a
                                                                  ld
ld
ld
                                                                                   4(ix), a
6(ix), a
                                                                                   6(ix), a
loc_0_21BA
jр
                                  loc_0_20E1:
                                                                                                                                                                   ; CODE XREF: sub_0_1F72+147↑j
                                                                                   0x10(ix), #1
                                                                   ld
                                                                   ld
                                                                                   0x11(ix),
loc_0_20C3
                                                                   jp
                                   loc_0_20EC:
                                                                                                                                                                   ; CODE XREF: sub_0_1F72+25 j
                                                                  exx
call
ld
                                                                                   sub_0_239C
                                                                                   a, h
#0x1A
                                                                   sub
ld
                                                                                   b, 0x19(ix)
20F6 B8
20F7 DA 04 21
20FA CD 2F 2A
20FD A7
20FE C2 18 21
2101 CD B4 24
2104
2104
2104 DD 7E 03
                                                                   ср
                                                                                   b
                                                                  jp
call
and
                                                                                       loc_0_2104
                                                                                   sub_0_2A2F
                                                                                   a
NZ, loc_0_2118
                                                                   jр
                                                                   call
                                                                                   sub_0_24B4
                                  loc_0_2104:
                                                                                                                                                                  ; CODE XREF: sub_0_1F72+185<sup>†</sup>j
                                                                                  a, 3(ix)
a, #8
#0x10
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
                                                                   ld
                                                                  add
cp
                                                                                   NC, loc 0 1FCE
                                                                   jр
                                                                                  a
0(ix), a
                                                                   xor
                                                                  ld
ld
                                                                                  0(1x), a
3(ix), a
loc_0_21BA
                                                                   jр
2118
2118
2118 DD 7E 05
                                  loc_0_2118:
                                                                                                                                                                   ; CODE XREF: sub_0_1F72+18C<sup>†</sup>j
                                                                                  a, 5(ix)
#0xE0; 'Ó'
C, loc_0_2146
a, 7(ix)
#0xFC; '3'
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
212A AF
212B DD 77 01
212E DD 77 01
212E DD 77 01
2135 DD 77 11
2138 DD 76 10 FF
2135 DD 77 11
2138 DD 77 12
2138 DD 36 10 FF
2137 DD 36 0E 01
2143 C3 53 21
2146
                                                                   ld
                                                                  cp
jp
ld
                                                                                                                                                                   ; switch falling (sideways) barrel to rolling bounce barrel
                                                                   and
                                                                  or
ld
                                                                                   #1
7(ix), a
                                                                   xor
ld
                                                                                  a
1(ix), a
                                                                                  1(ix), a

2(ix), a

0x10(ix), #0xFF

0x11(ix), a

0x12(ix), a

0x13(ix), #0xB0; '\'\'\'\'\'
                                                                  ld
ld
ld
                                                                   ld
                                                                                   loc_0_2153
                                                                   jр
2146
2146
2146 CD 07 24
                                                                                                                                                                ; CODE XREF: sub_0_1F72+1AB<sup>†</sup>j
                                  loc_0_2146:
                                                                                   sub_0_2407
sub_0_22CB
a, 5(ix)
0x19(ix), a
                                                                   call
 2149 CD CB 22
214C DD 7E 05
214F DD 77 19
                                                                  call
ld
ld
2152 AF
2153
                                                                   xor
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
                                    loc_0_2153:
                                                                                                                                                                        ; CODE XREF: sub_0_1F72+1D1<sup>†</sup>j
2153 DD 77 14
2156 DD 77 04
2156 DD 77 04
2159 DD 77 06
215C C3 BA 21
215F
215F
215F 7D
                                                                                     0x14(ix), a
                                                                     ld
                                                                     ld
ld
                                                                                     4(ix), a
6(ix), a
loc_0_21BA
                                                                     jр
                                    loc_0_215F:
                                                                                                                                                                        ; CODE XREF: sub_0_1F72+8F<sup>†</sup> j
                                                                     ld
                                                                                     a, 1
215F 7D
2160 C6 05
2162 57
2163 7C
2164 01 15 00
2167 CD 6D 21
216A C3 BA 21
                                    1d a, 1
add a, #5
ld d, a
ld a, h
ld bc, #0x15
call sub_0_216D
jp loc_0_21BA
; End of function sub_0_1F72
216A 216B 216B 216B 216B 216B 216B 216B 2171 C0 2172 78 2175 DD 77 17 2178 3A 48 63 217B A7 218C 2182 B6 64 2182 B6 64 2184 BA 2185 B8 2184 BA 2185 B8 2186 3A 80 63 2189 1F 2188 3C 2188 47 2188 3C 2188 47 2186 3A 18 60
 216A
                                                                    SUBROUTINE
                                    sub_0_216D:
                                                                                                                                                                       ; CODE XREF: sub_0_1F72+1F5\p
                                                                     call
                                                                                     sub_0_236E
                                                                     dec
ret
                                                                                     a
NZ
                                                                                     a, b
#5
                                                                     ld
sub
                                                                                     0x17(ix),
                                                                     ld
                                                                                     a, (unk_0_6348)
a
Z, loc_0_21B2
                                                                     ld
                                                                     jp
ld
                                                                                     a, (mario_x)
#4
                                                                     sub
cp
ret
ld
                                                                                     a. (unk 0 6380)
                                                                     rra
inc
ld
                                                                                     b, a
218B 47

218C 3A 18 60

218F 4F

2190 E6 03

2192 B8

2193 D0

2194 21 10 60

2197 3A 03 62
          3A 18 60
4F
                                                                                    a, (random_no)
c, a
#3
                                                                     ld
                                                                     ld
and
                                                                     cp
ret
                                                                                     NC
                                                                                     hl, #controller_in
a, (mario_y)
e
Z, loc_0_21B2
                                                                     ld
ld
219A BB
219B CA B2 21
219E D2 A9 21
21A1 CB 46
21A3 CA AE 21
21A6 C3 B2 21
21A9
21A9
21A9
                                                                     cp
jp
jp
bit
 219A BB
                                                                                     Z, loc_0_21B2

NC, loc_0_21A9

0, (hl)

Z, loc_0_21AE

loc_0_21B2
                                                                                                                                                                        ; right?
                                                                                                                                                                        ; no, skip
                                                                     jр
 21A9
21A9 CB 4E
21AB C2 B2 21
21AE
                                                                                                                                                                        ; CODE XREF: sub_0_216D+31 j
                                    loc 0 21A9:
                                                                    bit
                                                                                     1, (hl)
NZ, loc_0_21B2
                                                                                                                                                                        ; left?
                                                                                                                                                                        ; yes, skip
                                                                     jр
21AE
21AE
21AE 79
21AF E6 18
21B1 C0
21B2
                                    loc_0_21AE:
                                                                                                                                                                        ; CODE XREF: sub_0_216D+36 j
                                                                                     a, c
#0x18
                                                                                     NZ
                                                                     ret
 21B2
21B2 DD 34 07
                                                                                                                                                                        ; CODE XREF: sub_0_216D+F<sup>†</sup> j
; sub_0_216D+2E<sup>†</sup> j ...
                                    loc_0_21B2:
                                                                                                                                                                           sprite tile #
switch rolling barrel to going-down-ladder barrel
                                                                                     7(ix)
0, 2(ix)
 21B2
 21B5 DD CB 02 C6
                                                                     set
 21B9 C9
21B9
                                    ret
; End of function sub_0_216D
 21B9
 21BA
 21BA
21BA
                                    loc_0_21BA:
                                                                                                                                                                        ; CODE XREF: sub_0_1F72+59\uparrow j; sub_0_1F72+70\uparrow j ...
 21BA D9
 21BA
21BB DD 7E 03
                                                                     ld
ld
                                                                                     a, 3(ix)
(hl), a
                                                                                                                                                                        ; set sprite X
 21BE
                                                                                    1
a, 7(ix)
                                                                     inc
ld
ld
 21BF 2C
 21C0 DD 7E 07
21C3 77
21C4 2C
                                                                                                                                                                       ; set sprite tile #
                                                                                     a, 7(ix (hl), a
                                                                     inc
                                                                                     a, 8(ix (hl), a
                                                                                          8(ix)
 21C5 DD 7E 08
                                                                     ld
                                                                                                                                                                        ; set sprite vflip & palette
                                                                     ld
                                                                     inc
                                                                                     1
a, 5(ix)
 21CA DD 7E 05
                                                                     ld
                                                                                                                                                                        ; set sprite Y
 21CD 77
21CE C3 8D 1F
                                                                     ld
jp
                                                                                      (h1)
 21CE
21D1 80 FE
                                                                                                                                                                        ; DATA XREF: next_attract_action or is lst byte is input, 2nd is timer
                                    attract_mario_inputs:.dw 0xFE80
 21D1
21D3 01 C0
21D5 04 50
                                                                     .dw 0xC001
.dw 0x5004
 21D7 02 10
21D9 82 60
21DB 02 10
21DD 82 CA
                                                                     .dw 0x1002
.dw 0x6082
.dw 0x1002
.dw 0xCA82
21DD 82 CA
21DF 01 10
21E1 81 FF
21E3 02 38
21E5 01 80
21E7 02 FF
21E9 04 80
21EB 04 60
                                                                     .dw 0x1001
.dw 0xFF81
.dw 0x3802
```

; CODE XREF: 0000:19771p

; get entry
; convert to word
; add to base
; ptr to entry
; lst byte of entry

.dw 0x8001

.dw 0xFF02 0x8004 0x6004 .dw

ld 1d

ld rlca add

1d

ld

next\_attract\_action:

.db 0x80

SUBROUTINE

a, (hl)

a, e e, a a, (de)

de, #attract\_mario\_inputs

hl, #attract\_movement\_entry

21ED 80

21F8 1A

21EE 21EE 2 21EE 11 D1 21 21F1 21 CC 63 21F4 7E 21F5 07 21F6 83

21EE 21EE

21EE 21EE

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
21F9 32 10 60
21FC 2C
21FD 7E
21FE 35
21FF A7
2200 CO
2201 1C
2202 1A
2203 77
2204 2D
2205 34
2206 C9
2206
                                                                                          (controller_in), a
                                                                                                                                                                                  ; store simulated inputs
                                                                         ld
                                                                         ld
dec
and
                                                                                          a, (hl) (hl)
                                                                                                                                                                                 ; get movement timer
; done?
                                                                                          a
NZ
                                                                                                                                                                                  ; no, return
; ptr 2nd byte of entry
; get 2nd byte
; store as timer
                                                                         ret
                                                                                          e
a, (de)
(hl), a
                                                                         ld
ld
                                                                                                                                                                                  ; back to entry
; next entry
                                                                         dec
                                                                                          (hl)
                                                                         inc
                                                                         ret
                                      ; End of function next_attract_action
2206
2207
2207
2207
2207
2207
2207
2207
                                                                    S U B R O U T I N E
                                      sub_0_2207:
                                                                                                                                                                                 ; CODE XREF: 0000:199B↑p
           3E 02
                                                                         ld
                                                                                          a, #2
2207 3E 02
2208 F7
220A 3A 1A 60
220D 1F
220E 21 80 62
2211 7E
2212 DA 19 22
2215 21 88 62
2218 7E
2219 2219
2219 E5
221A EF
221B 27
                                                                         rst
                                                                                          0x30
                                                                                                                                                                                 ; return if level bit not set
                                                                         ld
rra
                                                                                          a, (gen_purpose_timer)
                                                                                          hl, #unk_0_6280
                                                                         ld
                                                                                          a, (h1)
C, loc_0_2219
h1, #unk_0_6288
a, (h1)
                                                                         ld
                                                                         jp
ld
                                                                         ld
                                      loc_0_2219:
                                                                                                                                                                                  ; CODE XREF: sub_0_2207+B<sup>†</sup> j
                                                                         push
221A EF
221B 27
221C 22 59 22
221F 99
2220 22 A2 22
2223 00
2224 00
2226 00
2226 00
2226 22
2229 35
2228 2C
2229 2D
2222 34
222F 2C
                                                                                                                                                                                  ; go!
                                                                         rst
                                                                         daa
ld
sbc
ld
                                                                                          (loc_0_2259), hl
                                                                                          a, c
(loc_0_22A2), hl
                                                                         nop
nop
nop
                                                                         pop
inc
dec
                                                                                         hl
l
(hl)
                                                                         jp
dec
inc
                                                                                          NZ, loc_0_223A
                                                                                           1
(h1)
222E 34
222F 2C
2230 2C
2231 CD 43 22
2234 3E 01
2236 32 1A 62
2239 C9
223A
223A
                                                                         inc
                                                                         call
ld
ld
                                                                                          sub_0_2243
                                                                                          a, #1
(unk_0_621A), a
223A
223A
223A
2C
223B CD 43 22
223E AF
223F 32 1A 62
2242 C9
2242
2242
2242
                                      loc 0 223A:
                                                                                                                                                                                 ; CODE XREF: sub 0 2207+231 j
                                                                         inc
                                                                         call
                                                                                          sub_0_2243
                                                                         xor
                                                                                          (unk_0_621A), a
                                                                         1d
                                      ret; End of function sub_0_2207
 2243
2243
2243
2243
2243
2243
2243
2243
2244
3A 05 62
2243
                                                                       SUBROUTINE
                                                                                                                                                                                  ; CODE XREF: sub_0_2207+2A\uparrow p; sub_0_2207+34\uparrow p . . .
                                      sub_0_2243:
                                                                                         a, (mario_x)
#0x7A; 'z'
NC, loc_0_2257
a, (mario_jumping)
ld
                                                                         cp
jp
ld
                                                                         and
                                                                                          NZ, loc_0_2257
a, (mario_y)
(hl)
Z
                                                                         jp
ld
                                                                         cp
ret
                                      loc_0_2257:
                                                                                                                                                                                  ; CODE XREF: sub_0_2243+5<sup>†</sup> j ; sub_0_2243+C<sup>†</sup> j
                                      pop hl
    ret
; End of function sub_0_2243
2258 C9
2258
2258
2259 *
2259 *
2259 *
2259 *
2259 *
2258 2C
2258 2C
2252 2C
2252 35
2257 CO
2264 34
2262 77
2263 2D
2264 34
2265 CD BD 22
2268 3E 78
2268 BE 72
2268 2D
2271 34
2272 2C
2274 2C
2274 2C
2275 2275
                                     loc_0_2259:
                                                                                                                                                                                 ; DATA XREF: sub_0_2207+15 w
                                                                         pop
inc
inc
inc
                                                                                         hl
1
1
1
                                                                         dec
ret
ld
ld
                                                                                           (h1)
                                                                                          a, #4
(h1), a
                                                                         dec
inc
call
                                                                                          (h1)
(h1)
sub_0_22BD
                                                                                          a, #0x78; 'x'
(h1)
```

cp jp dec dec dec inc

inc

dec call ld

cp jp

loc\_0\_2275:

2275 2D 2276 CD 43 22 2279 3A 05 62 227C FE 68

227E D2 8A 22

NZ, loc\_0\_2275

; CODE XREF: 0000:226B1j

l (hl)

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

NC, loc\_0\_228A

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
 2281
2281
2281 21 05 62
2284 34
2285 CD C0 3F
                                                                                                                                                                                                                                                                                                      ; CODE XREF: 0000:228B - i
                                                             loc 0 2281:
                                                                                                                                                    hl, #mario_x
(hl)
                                                                                                                        ld
                                                                                                                        inc
call
                                                                                                                                                      sub_0_3FC0
2288 34
2289 C9
228A
228A
                                                                                                                        inc
                                                                                                                                                     (hl)
                                                                                                                        ret
228A 1F 228B DA 81 22 228E 1F 228F 3E 01 2291 DA 95 22 2294 AF 2295 32 22 62 2298 C9 2299 E1 229A 3A 18 60 229D E6 3C 229F C0 22A0 34 22A1 C9 22A2* 22A3* 2C 22A4 2C 22A5 2C 2A6 2C 2A7 35 2C 2A8 2C 2A
                                                             loc_0_228A:
                                                                                                                                                                                                                                                                                                      ; CODE XREF: 0000:227E11
                                                                                                                        rra
                                                                                                                                                     C, loc_0_2281
                                                                                                                        jp
rra
                                                                                                                        1d
                                                                                                                        jp
xor
                                                                                                                                                              loc_0_2295
                                                             loc_0_2295:
                                                                                                                                                                                                                                                                                                      ; CODE XREF: 0000:2291 j
                                                                                                                        ld
                                                                                                                                                     (unk_0_6222), a
                                                                                                                        ret
                                                                                                                        pop
ld
and
                                                                                                                                                     a, (random_no)
#0x3C; '<'
                                                                                                                        ret
                                                                                                                                                     NZ
                                                                                                                        inc
                                                                                                                                                     (hl)
                                                              loc_0_22A2:
                                                                                                                                                                                                                                                                                                      ; DATA XREF: sub_0_2207+19 w
                                                                                                                                                    hl
1
1
                                                                                                                        pop
inc
                                                                                                                        inc
inc
inc
dec
                                                                                                                                                     1
(hl)
                                                                                                                        ret
ld
dec
                                                                                                                                                    NZ
(hl), #2
22AB 2D
22AC 35
22AD CD BD 22
22B0 3E 68
22B2 BE
22B3 CO
22B4 AF
22B5 06 80
22B7 2D
22B8 2D
22B9 70
22BA 2D
22BB 77
22BC C9
22BD
22BD
22BD
                                                                                                                                                      (hl)
                                                                                                                                                     sub_0_22BD
a, #0x68; 'h'
(h1)
                                                                                                                        call
ld
                                                                                                                        cp
ret
                                                                                                                                                     NZ
                                                                                                                        xor
ld
                                                                                                                                                     a
b, #0x80 ; 'Ç'
                                                                                                                        dec
dec
                                                                                                                        ld
dec
ld
                                                                                                                                                      (hl), b
                                                                                                                                                     (hl), a
                                                                                                                        SUBROUTINE
22BD
22BD
22BD
22BD 7E
                                                                                                                                                                                                                                                                                                      ; CODE XREF: 0000:2265<sup>p</sup>; 0000:22AD<sup>p</sup>
                                                             sub_0_22BD:
22BD 7E
22BE CB 5D
22C0 11 4B 69
22C3 CC 92
22C6 11 47 69
22C9
22C9
22CA C9
22CA
22CA
22CA
                                                                                                                                                  a, (h1)
3, 1
de, #soft_sprite_ram+0x4B
NZ, loc_0_22C9
de, #soft_sprite_ram+0x47
                                                                                                                       ld
bit
ld
                                                                                                                        jp
ld
                                                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_22BD+6^j
                                                              loc_0_22C9:
                                                                                                                        ld
                                                                                                                                                     (de), a
                                                              ret; End of function sub_0_22BD
 22CB
22CB
22CB
22CB
                                                                                                                     SUBROUTINE
sub_0_22CB:
                                                                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_1F72+1D7<sup>p</sup>
                                                                                                                        ld
and
                                                                                                                                                    a, (unk_0_6348)
                                                                                                                                                    a
Z, loc_0_22E1
                                                                                                                        jp
ld
dec
                                                                                                                                                    a, (unk_0_6380)
a
0x28
                                                                                                                                                                                                                                                                                                       ; go!
                                                                                                                        rst
                                                                                                                        .dw loc_0_22F6
.dw loc_0_22F6
.dw loc_0_2303
.dw loc_0_2303
.dw loc_0_231A
                                                                                                                                                                                                                                                                                                       ; Jump table
                                                                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_22CB+4^j
                                                              loc 0 22E1:
22E1 3A 29 62
22E4 47
22E5 05
                                                                                                                                                    a, (2
b, a
b
                                                                                                                        ld
ld
                                                                                                                                                                 (level)
                                                                                                                        dec
ld
22E5 05
22E6 3E 01
22E8 CA F9 22
22EB 05
22EC 3E B1
                                                                                                                                                     a,
Z,
b
                                                                                                                        jp
dec
                                                                                                                                                              loc_0_22F9
                                                                                                                                                               #0xB1 ; '
                                                                                                                                                    a, #0xB1;
Z, loc_0_22F9
a, #0xE9; 'Ú
22EC 3E B1
22EE CA F9 22
22F1 3E E9
22F3 C3 F9 22
22F6
22F6 22F6
22F6 3A 18 60
22F6
22F9 DD 77 11
22F9 DD 77 11
22F9 E6 01
                                                                                                                        jp
ld
                                                                                                                                                     loc_0_22F9
                                                                                                                        jр
                                                              loc_0_22F6:
                                                                                                                                                                                                                                                                                                      ; DATA XREF: sub_0_22CB+C<sup>†</sup>o; sub_0_22CB+E<sup>†</sup>o
```

ld

ld

and

ld

ret; End of function sub\_0\_22CB

loc\_0\_22F9:

22FC E6 01 22FE 3D 22FF DD 77 10

2302 C9 2302 2302

2303 2303 a, (random\_no)

0x11(ix), a

a 0x10(ix), a

; CODE XREF: sub\_0\_22CB+1D<sup>†</sup>j; sub\_0\_22CB+23<sup>†</sup>j ...

```
; DATA XREF: sub_0_22CB+10<sup>†</sup>o; sub_0_22CB+12<sup>†</sup>o
2303 3A 18 60
                                                      ld
ld
ld
                                                                   a, (random_no)
0x11(ix), a
a, (mario_y)
3(ix)
2303 DD 77 11
2309 3A 03 62
2300 DD 8E 03
230F 3E 01
2311 D2 16 23
2314 3D
2315 3D
2316
2316
2316
2316 DD 77 10
2319 C9
                                                      cp
ld
jp
                                                                   a, #1
NC, loc_0_2316
                                                      dec
dec
                            loc_0_2316:
                                                                                                                                      ; CODE XREF: 0000:2311<sup>†</sup>j
                                                      ld
                                                                    0x10(ix), a
2319 C9
231A
231A
231A
                                                      ret
loc 0 231A:
                                                                                                                                      ; DATA XREF: sub 0 22CB+14<sup>†</sup>o
                                                                   a, (mario_y)
3(ix)
c, #0xFF
C, loc_0_2326
                                                      1d
                                                      sub
ld
                                                      jp
inc
                            loc_0_2326:
                                                                                                                                     ; CODE XREF: 0000:23221j
                                                      rlca
                                                      rl
rlca
                                                      rl
                                                                    0x10(ix), c
0x11(ix), a
                                                      14
                                                      ld
                                                      ret
                                                     SUBROUTINE
                                                                                                                                      ; CODE XREF: sub_0_1AC3+221\p
                            adjust_height_on_girders:
                                                                                                                                      ; sub_0_1F72+95\p ...
                                                                   a, #0xF
h
                                                      and
2336 05
2337 CA 42 23
233A FE 0F
233C D8
233D 06 FF
                                                                                                                                      ; dY=+1?
                                                      dec
                                                                    b
                                                                    Z, loc_0_2342
#0xF
                                                      jp
                                                                                                                                      ; yes, skip
                                                      ср
                                                      ret
                                                                    b. #0xFF
233D 06 FF
233F C3 47
2342
2342
2342 FE 01
2344 D0
2345 06 01
2347
2347
2347 3E FO
2349 BD
                                                      ld
             47 23
                                                                    loc_0_2347
                                                      jp
                            loc 0 2342:
                                                                                                                                     ; CODE XREF: adjust_height_on_girders+4 i j
                                                      cp
ret
                                                                   b, #1
                                                      ld
                            loc_0_2347:
                                                                                                                                      ; CODE XREF: adjust_height_on_girders+C<sup>†</sup>j
                                                                    a, #0xF0 ; '-'
                                                      ld
2349 BD
234A CA 60 23
234D 3E 4C
234F BD
                                                      cp
jp
ld
                                                                                                                                      ; X
                                                                   Z, loc_0_2360
a, #0x4C; 'L
                                                      cp
jp
ld
bit
                                                                                                                                      ; X
2350 CA 66 23
2353 7D 2354 CB 6F
2356 CA 5C 23
2359
                                                                    Z, loc_0_2366
                                                                                                                                      ; X
                                                                    Z, loc_0_235C
                                                      jр
2359
2359
2359
90
235A
235A
235A 6F
235B C9
                            loc_0_2359:
                                                                                                                                      ; CODE XREF: adjust_height_on_girders+2F|j
                                                                    b
                            loc_0_235A:
                                                                                                                                      ; CODE XREF: adjust_height_on_girders+2A|j
                                                      ld
ret
                                                                                                                                      ; adjusted X
235C
235C
235C
235C
235C 80
                            loc_0_235C:
                                                                                                                                      ; CODE XREF: adjust_height_on_girders+23<sup>†</sup>j
; adjust_height_on_girders+38<sup>†</sup>j
                                                      add
                                                                       , b
235D C3 5A 23
2360
2360
                                                                    loc_0_235A
2360
2360
2360 CB 7C
2362 C2 59 23
2365 C9
2366
2366
2366
                            loc_0_2360:
                                                                                                                                      ; CODE XREF: adjust_height_on_girders+17^{\uparrow}j
                                                      bit
                                                                   7, h
NZ, loc_0_2359
                                                      jр
                                                      ret
                            loc_0_2366:
                                                                                                                                      ; CODE XREF: adjust height on girders+1D1j
2366
2367
2369
        7C
                                                      ld
                                                                       h
2367 FE 98
2369 D8
236A 7D
236B C3 5C 23
                                                      cp
ret
                                                                    #0x98 ; 'ÿ'
                                                      ld
                                                                    a, 1
loc 0 235C
                            jp loc_0_235C; End of function adjust_height_on_girders
236B
236B
236E
236E
236E
236E
                                                   SUBROUTINE
236E
                            sub 0 236E:
                                                                                                                                      ; CODE XREF: sub 0 1AC3+501p
236E 21 00 63
                                                                                                                                      ; sub_0_216D\p ...
                                                      ld
                                                                   hl, #unk_0_6300
                                                                                                                                     ; CODE XREF: sub 0 236E+1E-i
                            loc 0 2371:
2371 2371 ED B1 2373 C2 9A 23 2376 E5 2377 C5 2378 01 14 00 237D 5F 237D 5F 237D 5F 237D 5F
                                                      cpir
                                                                    NZ, loc_0_239A
                                                      jp
push
                                                                    hl
                                                      push
ld
add
                                                                    bc
                                                                   bc, #0x14
hl, bc
                                                                   c
e, a
a, d
(h1)
                                                      inc
ld
                                                      ld
cp
jp
add
        7A
BE
237F BE
2380 CA 8F 23
2383 09
2384 BE
2385 CA 95 23
                                                                   Z, loc_0_238F
hl, bc
                                                                    hl, bc
(hl)
                                                                    Z, loc_0_2395
                                                      jp
ld
2388 57
2389 7B
                                                                   d, a a, e
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
                                                                                                                     pop
jp
 238B E1
                                                                                                                                                hl
238C C3 71 23
238F
238F
                                                                                                                                                loc 0 2371
                                                            loc_0_238F:
                                                                                                                                                                                                                                                                                             ; CODE XREF: sub 0 236E+1211
 238F
238F 09
2390 3E 01
2392 C3 98 23
                                                                                                                     add
                                                                                                                                                hl, bc
                                                                                                                                                a, #1
loc_0_2398
                                                                                                                     jр
2395
2395
2395
2395
AF
                                                            loc_0_2395:
                                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_236E+17†j
                                                                                                                     xor
2395 AF
2396 ED 42
2398
2398 C1
                                                                                                                     sbc
                                                                                                                                                hl, bo
                                                           loc_0_2398:
                                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_236E+24<sup>†</sup>j
                                                                                                                     pop
ld
                                                                                                                                                bc
2399 46
239A
239A
239A E1
                                                                                                                                                b, (hl)
                                                           loc_0_239A:
                                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_236E+5<sup>†</sup>j
                                                            pop hl
ret
; End of function sub_0_236E
S U B R O U T I N E
                                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_1AC3+FF<sup>†</sup>p; sub_0_1AC3+129<sup>†</sup>p ...
                                                            sub_0_239C:
                                                                                                                                               a, 4(ix)
a, 0x11(ix)
4(ix), a
a, 3(ix)
a, 0x10(ix)
                                                                                                                    ld
add
239F DD 86 11
23A2 DD 77 03
23A8 DD 8E 10
23AB DD 7E 03
23AB DD 7E 06
23B1 DD 96 13
23AB DD 7E 06
23B1 DD 96 13
23B4 6F
23B5 DD 7E 05
23B8 DD 9E 12
23BB DD 7E 14
23BF A7
23C0 17
23C1 3C
23C2 06 00
23C4 CB 10
                                                                                                                    ld
ld
ado
                                                                                                                                              a, 3(1x)

a, 0x10(ix)

3(ix), a

a, 6(ix)

0x13(ix)

1, a

a, 5(ix)

a, 0x12(ix)

h, a

a, 0x14(ix)

a
                                                                                                                    ld
sub
ld
                                                                                                                     1d
                                                                                                                    sbc
ld
ld
and
23BF A7
23C0 17
23C1 3C
23C1 3C
23C2 06 00
23C4 CB 10
23C6 CB 27
23C8 CB 10
23CA CB 10
2
                                                                                                                    rla
inc
ld
rl
                                                                                                                                               a
b, #0
b
                                                                                                                    sla
rl
                                                                                                                     sla
                                                                                                                                                a
b
                                                                                                                    rl
sla
                                                                                                                                                a
b
                                                                                                                     rl
23D0 CB 10

23D2 4F

23D3 09

23D4 DD 74 05

23D7 DD 75 06

23DA DD 34 14

23DD C9

23DD C9

23DD
                                                                                                                                                c, a
hl, bc
5(ix), h
6(ix), l
                                                                                                                     1d
                                                                                                                     add
ld
                                                                                                                     ld
                                                                                                                     inc
                                                                                                                                                0x14(ix)
                                                            ret; End of function sub_0_239C
 23DE
 23DE
23DE
                                                                                                                 SUBROUTINE
23DE
23DE
23DE
23DE DD 7E 0F
23DE
                                                            sub_0_23DE:
                                                                                                                                                                                                                                                                                             ; CODE XREF: sub 0 1F72+9F1p
                                                                                                                                                                                                                                                                                             ; sub_0_1F72+101\p
                                                                                                                                                a, 0xF(ix)
                                                                                                                     ld
                  3D
 23E1
                                                                                                                     dec
23E2 C2 03 24
23E5 AF
23E6 DD CB 07 26
                                                                                                                     jp
xor
                                                                                                                                                NZ, loc_0_2403
                                                                                                                                                                                                                                                                                             ; animate rolling barrels
; toggle H & V flips
                                                                                                                                                a
7(ix)
                                                                                                                     sla
23EA 17
23EB DD CB 08 26
23EF 17
23F0 47
                                                                                                                    rla
sla
rla
ld
                                                                                                                                                                                                                                                                                             ; toggle H & V flips
                                                                                                                                                8(ix)
                                                                                                                                               b, a
a, #3
23F1 3E 03
23F3 B1
23F4 CD 09 30
23F7 1F
23F8 DD CB 08 1E
23FC 1F
23FD DD CB 07 1E
2401 3E 04
                                                                                                                    ld
or
call
                                                                                                                                                animate_mario_or_barrel_sprite
                                                                                                                     rra
                                                                                                                                                8(ix)
                                                                                                                                                                                                                                                                                             ; toggle H & V flips
                                                                                                                                                7(ix)
                                                                                                                                                                                                                                                                                             ; toggle H & V flips
                                                                                                                     rr
ld
23FD DD CB 07
2401 3E 04
2403
2403 2403 DD 77 0F
2406 C9
                                                                                                                                                a, #4
                                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_23DE+4^j
                                                            loc_0_2403:
                                                                                                                     ld
                                                                                                                                                0xF(ix), a
                                                                                                                     ret
2406 C9
2406
2407
2407
2407
2407
2407
2407
2407 DD 7E 14
2407
2408 07
2408 07
                                                             ; End of function sub_0_23DE
                                                                                                            SUBROUTINE
                                                                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1AC3+11C\p; sub_0_1F72+151\p ...
                                                            sub 0 2407:
                                                                                                                    ld
rlca
                                                                                                                                                a, 0x14(ix)
240A 07
240B 07
240C 07
240C 07
240E 4F
240F E6 0F
2411 67
2412 79
2413 E6 F0
2415 6F
2416 DD 4E 13
2419 DD 46 12
241C ED 42
241E
241E
241F
                                                                                                                     rlca
                                                                                                                    rlca
                                                                                                                     ld
                                                                                                                                                c, a
#0xF
                                                                                                                     and
                                                                                                                     ld
ld
                                                                                                                                                h, a
                                                                                                                                                 a, c
#0xF0 ; '-'
                                                                                                                     and
ld
```

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

hl, bc

SUBROUTINE

ld ld sbc

ret; End of function sub\_0\_2407

241F

241F

```
241F
 241F
241F
241F
241F 11 00 01
241F
                                                                                                                                  ; CODE XREF: sub_0_1AC3+23^{\uparrow}p; sub_0_1AC3+102^{\uparrow}p ...
                           sub_0_241F:
                                                                  de, #0x100
241F
2422 3A 03 62
2425 FE 16
2427 D8
2428 15
2429 1C
                                                     ld
                                                                       (mario_y)
                                                                  a, (ma
#0x16
                                                     cp
ret
dec
                                                                  d
e
#0xEA ; 'Û'
                                                     cp
ret
dec
                                                     1d
                                                                  a, (level_type)
                                                     rrca
ret
ld
                                                                  NC
                                                                  a, (mario_x
#0x58; 'X'
                                                                      (mario x)
                                                     cp
ret
ld
                                                                  NC
a, (mario_y)
#0x6C; 'l'
                                                     ср
                                                     ret
                           ; End of function sub_0_241F
                                                    SUBROUTINE 
                                                                                                                                  ; CODE XREF: 0000:0D62<sup>p</sup>; anti-tamper check?
                           sub_0_2441:
                                                                  hl, #aNINTENDO+1
                                                     ld
                                                                  a, #0x5E; '^
b, #6
                                                     ld
                                                                 a, (hl)
hl
                                                                                                                                  ; CODE XREF: sub_0_2441+9|j
                           loc 0 2448:
2448 86
2449 23
244A 10
                                                     add
inc
djnz
2448 86
2449 23
244A 10 FC
244C FD 21 10 63
2450 A7
2451 CA 56 24
2454 FD 23
                                                                  loc_0_2448
                                                                  iy, #unk_0_6310
                                                     1d
                                                      and
                                                                  a
Z, loc_0_2456
                                                     jp
inc
2454 FD 23
2456 3A 27 62
2459 3D 62
2459 3D 2459 A 27
2450 CA 7 24
2460 3D 2460 3D 2461 21 5D 3B
2464 CA 71 24
2467 3D E5 3B
2468 21 E5 3B
2468 CA 71 24
                            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
                                                     jp
dec
                                                                  Z, loc_0_2471
                                                                  a
hl, #elevator_level_tilemap_data
Z, loc_0_2471
hl, #rivet_level_tilemap_data
                                                     jp
ld
                                                                                                                                  ; CODE XREF: sub_0_2441+1C^j
                           loc_0_2471:
                                                                                                                                  ; sub_0_2441+23<sup>†</sup>j ...
                                                                  ix, #unk_0_6300
de, #5
                                                                                                                                  ; CODE XREF: sub_0_2441+44|j; sub_0_2441+5A|j ...
                           loc_0_2478:
                                                     ld
                                                                  a, (hl)
                                                     and
                                                                  a
Z, loc_0_2488
                                                     jp
dec
jp
cp
ret
add
                                                                  a
Z, loc_0_249E
 2481 FE A9
2483 C8
2484 19
2485 C3 78 24
                                                                  #0xA9 ;
                                                                  hl, de
loc_0_2478
                                                     jр
2488
2488
2488
2488
2488 23
                           loc_0_2488:
                                                                                                                                  ; CODE XREF: sub_0_2441+39 j
                                                                  hl
                                                     inc
2489 7E
248A DD 77 00
248D 23
248E 7E
                                                                 a, (hl)
0(ix), a
                                                     ld
                                                     ld
                                                     inc
                                                                  n:
a, (hl)
0x15(ix), a
                                                     ld
248F DD 77 15
2492 23
2493 23
2494 7E
                                                     ld
inc
inc
                                                                  hl
                                                                 a, (hl)
0x2A(ix), a
                                                     ld
 2495 DD 77 2A
2498 DD 23
                                                     ld
inc
 249A 23
249B C3 78 24
                                                      inc
                                                                  hl
loc 0 2478
                                                     qŗ
249E
249E
249E
                           loc_0_249E:
                                                                                                                                  ; CODE XREF: sub_0_2441+3D|j
249E 23
249F 7E
24A0 FD 77 00
24A3 23
24A4 7E
                                                                  hl
                                                     ld
ld
                                                                  a, (hl)
0(iy), a
                                                     inc
24A4 7E
24A5 FD 77 15
24A8 23
24A9 23
                                                     ld
ld
                                                                  a, (hl)
0x15(iy), a
                                                                  hl
                                                     inc
                                                     inc
                                                                  hl
24AA 7E
24AB FD 77 2A
24AE FD 23
                                                                  a, (hl)
0x2A(iy), a
                                                     1d
                                                      ld
                                                     inc
                                                                  iy
hl
 24B0 23
                                                     inc
                            jp loc_0_2478; End of function sub_0_2441
 24B1 C3 78 24
24B1
 24B1
 24B4
 24B4
24B4
                                                    SUBROUTINE
 24B4
 24B4
24B4 DD 7E 05
24B4
                                                                                                                                   ; CODE XREF: sub_0_1F72+A2^{\uparrow}p; sub_0_1F72+F6^{\uparrow}p ...
                            sub_0_24B4:
                                                                  a, 5(ix)
#0xE8; 'b'
                                                     ld
 24B7 FE E8
                                                     cp
ret
 24B9 D8
```

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
 24BA DD 7E 03
                                                                    a, 3(ix)
#0x2A; '*'
                                                       ld
                                                       cp
ret
cp
ret
 24BD FE 2A
 24BF D0
24C0 FE 20
24C2 D8
                                                                    NC
#0x20 ; ' '
24C2 D8
24C3 DD 7E 15
24C6 A7
24C7 CA D0 24
24CA 3E 03
24CC 32 B9 62
                                                                     a, 0x15(ix)
                                                       ld
                                                       and
                                                                     a
Z, loc_0_24D0
                                                       jp
ld
                                                                     (unk_0_62B9), a
 24CC 32
24CF AF
24D0
24D0
                                                       ld
                            loc_0_24D0:
                                                                                                                                      ; CODE XREF: sub_0_24B4+13 j
24D0
24D0 DD 77 00
24D3 DD 77 03
24D6 21 82 60
24D9 36 03
                                                                    0(ix), a
3(ix), a
hl, #digital_snd_tmr_thump
(hl), #3
                                                       1d
                                                       ld
ld
ld
                                                                                                                                      ; tmr=3
 24DB E1
24DC 3A 48 63
24DF A7
                                                       pop
ld
and
                                                                    hl
a, (unk_0_6348)
24DF A7
24E0 C2 BA 21
24E3 3C
24E4 32 48 63
24E7 C3 BA 21
24E7
                                                       jp
inc
                                                                     NZ. loc 0 21BA
                                                       ld
                                                                      unk_0_6348), a
                            jp loc_0_21BA
; End of function sub_0_24B4
                                                     S U B R O U T I N E
 24EA
24EA
 24EA
24EA
24EA
24EA 3E 02
                            sub_0_24EA:
                                                                                                                                       ; CODE XREF: 0000:19921p
                                                                    a, #2
0x30
                                                       ld
24EA 3E 02
24EC F7
24ED CD 23 25
24F0 CD 91 25
24F3 DD 21 A0 65
24F7 06 06
24F9 21 B8 69
24FC
24FC
24FC
                                                       rst
call
call
                                                                                                                                      ; return if level bit not set
                                                                    0x30
sub_0_2523
sub_0_2591
ix, #unk_0_65A0
b, #6
hl, #soft_sprite_ram+0xB8
                                                       ld
                                                                                                                                      ; 6 sprites to update
                                                                                                                                      ; CODE XREF: sub 0 24EA+2F-i
                            loc 0 24FC:
 24FC DD 7E 00
24FF A7
2500 CA 1C 25
2503 DD 7E 03
                                                       ld
and
                                                                    a, 0(ix)
                                                                     a
Z, loc_0_251C
                                                       jp
ld
                                                                         3(ix)
                                                                                                                                      ; sprite X
                                                       ld
inc
                                                                     (hl), a
                                                                    1
a, 7(ix)
 2508 DD 7E 07
                                                                    a, 7(ix (hl), a
                                                                                                                                      ; sprite tile #
                                                       ld
inc
ld
 250B
 250D 77
250C 2C
250D DD 7E 08
                                                                        8(ix)
                                                                    a, 8(ix (hl), a
                                                                                                                                       ; sprite v flip & palette
 2510
                                                       ld
inc
 2511 2C
2512 DD 7E 05
2515 77
                                                                    1
a, 5(ix)
(h1), a
                                                                                                                                       ; sprite Y
2512 DD 7E
2515 77
2516 2C
2517
2517 DD 19
                                                       ld
                                                       inc
                                                                                                                                       ; CODE XREF: sub_0_24EA+36|j
                            loc_0_2517:
                                                                     ix, de
                                                       add
2517 DD 19
2519 10 E1
251B C9
251C
251C
251C
251C 7D
251D C6 04
                                                                    loc_0_24FC
                                                       djnz
ret
                            loc_0_251C:
                                                                                                                                      ; CODE XREF: sub_0_24EA+16 j
                                                       ld
add
ld
                                                                    a, 1
a, #4
1, a
 251F 6F
 2520 C3 17 25
                            jp loc_
; End of function sub_0_24EA
                                                                     loc 0 2517
 2523
 2523
2523
2523
                                                     SUBROUTINE
 2523
2523 21 9B 63
2526 7E
2527 A7
                             sub_0_2523:
                                                                                                                                      ; CODE XREF: sub_0_24EA+31p
                                                       ld
ld
                                                                    hl, #unk_0_639B
a, (hl)
2527 A7
2528 C2 8F 25
2528 A7
252E A7
252F C8
2530 06 06
2532 11 10 00
2535 DD 21 A0 65
2539
2539
2539
2539 DD CB 00 46
253D CA 45 25
2540 DD 19
2542 10 F5
2544 C9
2545
                                                       and
                                                                    NZ, loc_0_258F
a, (unk_0_639A)
                                                       jp
ld
                                                       and
                                                       ret
                                                                    b, #6
de, #0x10
ix, #unk_0_65A0
                                                       1d
                                                       ld
ld
                            loc_0_2539:
                                                                                                                                      ; CODE XREF: sub_0_2523+1F|j
                                                       bit
                                                                    Z, loc_0_2545
ix, de
                                                       jp
add
                                                       djnz
                                                                     loc_0_2539
                                                       ret
 2545
2545
2545
2545 CD 57 00
2548 FE 60
                            loc_0_2545:
                                                                                                                                      ; CODE XREF: sub_0_2523+1A j
                                                       call
                                                                     rand
                                                                     #0x60 ; '`'
cp
ld
jp
ld
                                                                    5(ix), #0x7C; '|'
C, loc_0_2558
a, (unk_0_62A3)
                                                       dec
                                                       jр
                                                                     NZ, loc_0_256E
                            loc_0_2558:
                                                                                                                                      ; CODE XREF: sub_0_2523+2B<sup>†</sup> j
 2558 DD 36 05 CC
255C 3A A6 62
255F 07
                                                                     5(ix), #0xCC; |
```

ld ld rlca

ld

jp 1d

call

loc 0 2560:

loc\_0\_256E:

2560

256E 256E

2560 DD 36 03 07 2564 D2 76 25 2567 DD 36 03 F8 2568 C3 76 25

256E CD 57 00

a, (unk\_0\_62A6)

3(ix), #7 NC, loc\_0\_2576

rand

3(ix), #0xF8; '°'
loc\_0\_2576

; CODE XREF: sub 0 2523+50-i

; CODE XREF: sub 0 2523+321 j

```
loc 0 2560
 2573 C3 60 25
 2576
2576
2576
2576 DD 36 00 01
                                                                                                                                                 ; CODE XREF: sub_0_2523+41<sup>†</sup> j ; sub_0_2523+48<sup>†</sup> j
                              loc_0_2576:
2576 DD 36 00 01
2576 DD 36 07 4B
2572 DD 36 09 08
2582 DD 36 0A 03
2586 3E 7C
2588 32 9B 63
2588 AF
                                                                         O(ix), #1
7(ix), #0x4B; 'K'
9(ix), #8
0xA(ix), #3
a, #0x7C; '|'
                                                           ld
ld
                                                                                                                                                 ; cement pie sprite tile
                                                           ld
                                                           ld
ld
                                                                          a, #0x7C; '|'
(unk_0_639B), a
                                                           xor
258C 32 9A 63
258F
258F
                                                                          (unk_0_639A), a
                                                           ld
                              loc_0_258F:
                                                                                                                                                 ; CODE XREF: sub_0_2523+5 j
 258F 35
                                                           dec
                                                                         (hl)
                              ret; End of function sub_0_2523
 2590 C9
 2591
                                                         SUBROUTINE
                                                                                                                                                 ; CODE XREF: sub 0 24EA+61p
 2591
                              sub_0_2591:
 2591 DD 21 A0 65
2595 11 10 00
2598 06 06
                                                           ld
ld
                                                                         ix, #unk_0_65A0
de, #0x10
b, #6
2598 06 06 06

259A

259A

259A D CB 00 46

259E CA BB 25

25A1 DD 7E 03

25A4 67

25A5 C6 07

25A7 FE 0E

25A9 DA D6 25

25AC DD 7E 05

25AF FE 7C

25B1 CA CO 25

25B4 3A A6 63

25B7 84

25B8 DD 77 03
                                                           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
                                                           jp
ld
ld
add
                                                           cp
jp
ld
cp
jp
ld
add
                                                                          #0xE
                                                                         #UXE
C, loc_0_25D6
a, 5(ix)
#0x7C; '|'
Z, loc_0_25C0
a, (unk_0_63A6)
a, h
                                                                          a, h
3(ix), a
                                                           ld
 25BB
 25BB DD 19
                                                                                                                                                  ; CODE XREF: sub_0_2591+D<sup>†</sup> j
; sub_0_2591+42<sup>†</sup> j ...
                              loc_0_25BB:
 25BB
                                                           add
                                                                         ix, de
loc_0_259A
 25BD 10 DB
                                                           djnz
ret
25BD 10 DB
25BF C9
25C0
25C0
25C0
25C0 7C
25C1 FE 80
                              loc_0_25C0:
                                                                                                                                                 ; CODE XREF: sub_0_2591+20 j
                                                                         a, h

#0x80; 'C'

Z, loc_0_25D6

a, (unk_0_63A5)

NC, loc_0_25CF

a, (unk_0_63A4)
                                                           ср
25C3 CA D6 25
25C6 3A A5 63
25C9 D2 CF 25
25CC 3A A4 63
                                                           jp
ld
                                                           jp
ld
25CF
25CF
25CF 84
25D0 DD 77 03
                               loc_0_25CF:
                                                                                                                                                 ; CODE XREF: sub_0_2591+38 j
                                                                         a, h
3(ix),
                                                           add
                                                           ld
 25D3 C3 BB 25
                                                           jр
                                                                          loc_0_25BB
25D3 C3 BB 25
25D6
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:
 25D6
25D9
                                                           ld
ld
                                                                          hl, #soft_sprite_ram+0xB8
         3E 06
                                                                         a, #6
b
 25DB 90
                                                           sub
25DC
25DC
25DC CA E7 25
                                                                                                                                                 ; CODE XREF: sub_0_2591+53|j
                               loc_0_25DC:
                                                           jp
inc
inc
inc
inc
                                                                          Z, loc_0_25E7
25DF 2C
25E0 2C
25E1 2C
25E2 2C
                                                                          1
 25E3
         3D
                                                           dec
25E3 3D

25E4 C3 DC 25

25E7

25E7

25E7

25E8 DD 77 00

25EB DD 77 03
                                                           jp
                                                                          loc_0_25DC
                               loc_0_25E7:
                                                                                                                                                ; CODE XREF: sub_0_2591+4B|j
                                                           xor
ld
                                                                         a
0(ix), a
3(ix), a
                                                           ld
 25EE 77
25EF C3 BB 25
                                                           1d
                                                                          (h1), a
loc_0_25BB
                                                           jр
                               ; End of function sub_0_2591
 25EF
25EF
 25F2
25F2
25F2
                                                         SUBROUTINE ...
25F2
25F2
25F2 3E 02
25F4 F7
                               sub_0_25F2:
                                                                                                                                                 ; CODE XREF: 0000:19AA↑p
                                                                         a, #2
0x30
25F4 F7
25F5 CD 02 26
25F8 CD 2F 26
25FB CD 79 26
25FE CD D3 2A
2601 C9
2601
2601
                                                                                                                                                 ; return if level bit not set
                                                           rst
                                                           call
call
                                                                          sub_0_2602
sub_0_262F
sub_0_2679
                                                           call
                                                                          sub 0 2AD3
                               ret
; End of function sub_0_25F2
2602
2602
2602
                                        SUBROUTINE
 2602
                                                                                                                                                  ; CODE XREF: 0000:16D5 p
 2602
                              sub 0 2602:
 2602
2602
         3A 1A 60
                                                                                                                                                  ; sub_0_25F2+31p
                                                           ld
                                                                         a, (gen_purpose_timer)
 2605 OF
                                                           rrca
                                                                         C, loc_0_2616
hl, #unk_0_62A0
(hl)
 2606 DA 16 26
2609 21 A0 62
260C 35
                                                           jp
ld
                                                           dec
 260D C2 16 26
                                                                         NZ, loc_0_261 (hl), #0x80;
                                                                                loc_0_2616
                                                           jp
ld
 2610 36 80
```

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
                                                     inc
call
2613 CD DE 26
                                                                  sub 0 26DE
2616
2616 21 A1 62
                                                                                                                                   ; CODE XREF: sub_0_2602+4^j; sub_0_2602+B^j;
                           loc_0_2616:
2616 21 A1 62
2616 CD E9 26
2619 CD E9 26
261C 32 A3 63
261F 3A 1A 60
2622 E6 1F
2624 FE 01
2626 CO
2627 11 E4 69
                                                                  hl, #unk_0_62A1
                                                      ld
                                                     call
ld
ld
                                                                  sub_0_26E9
(unk_0_63A3), a
                                                                  a, (gen_purpose_timer)
#0x1F
                                                      and
                                                     cp
ret
                                                                  de, #soft_sprite_ram+0xE4
                                                      ld
262A EB
262B CD A6 26
262E C9
262E
                                                      ex
                                                                  de.
                                                                        h1
                                                      call
                                                                   sub_0_26A6
                                                      ret
                            ; End of function sub_0_2602
SUBROUTINE
                            sub_0_262F:
                                                                                                                                   ; CODE XREF: sub_0_25F2+61p
                                                                  hl, #unk_0_62A3
                                                      ld
                                                                  a, (mario_x)
#0xC0; 'L'
C, loc_0_266F
                                                      ld
                                                      cp
jp
ld
                                                                  a, (gen_purpose_timer)
                                                      rrca
                                                     jp
dec
dec
                                                                  C, loc_0_264C
l
(hl)
2643 C2 4C 26
2646 36 C0
2648 2C
2649 CD DE 26
                                                     jp
ld
                                                                  NZ, loc_0_264C
(hl), #0xC0; L
                                                                  sub_0_26DE
                                                     call
264C
264C
264C 21 A3 62
                                                                                                                                   ; CODE XREF: sub_0_262F+F^j; sub_0_262F+14^j ...
                           loc_0_264C:
                                                                  h1, #unk_0_62A3
sub_0_26E9
(unk_0_63A5), a
264C
                                                     ld
264C
264F CD E9 26
2652 32 A5 63
2655 ED 44
2657 32 A4 63
265A 3A 1A 60
265D E6 1F
                                                      call
ld
                                                      neg
                                                                  (unk 0 63A4), a
                                                      ld
                                                                  a, (gen_purpose_timer) #0x1F
                                                      ld
and
265D E6 1F
265F C0
2660 2D
2661 11 EC 69
2664 EB
2665 CD A6 26
2668 E6 7F
266A 21 ED 69
266D 77
                                                      ret
                                                                  NZ
                                                      ld
                                                                  de, #soft_sprite_ram+0xEC
                                                                  de, hl
sub_0_26A6
                                                      ex
                                                     call
and
ld
                                                                  #0x7F; ' hl, #soft_sprite_ram+0xED (hl), a
                                                      ld
266E C9
266F
266F
266F
                                                      ret
                                                                                                                                   ; CODE XREF: sub_0_262F+81j
                            loc_0_266F:
                           266F CB 7E
2671 C2 4C 26
2674 36 FF
2676 C3 4C 26
2676
                                                  SUBROUTINE
                            sub_0_2679:
                                                                                                                                   ; CODE XREF: sub_0_25F2+9\p
                                                     1d
                                                                  a, (gen_purpose_timer)
                                                      rrca
jp
ld
                                                                  C, loc_0_268D
hl, #unk_0_62A5
(hl)
                                                      dec
                                                      jp
ld
                                                                   NZ, loc_0_268D
(hl), #0xFF
268A CD DE 26
268D
268D
                                                                  sub_0_26DE
                                                      call
                                                                                                                                   ; CODE XREF: sub_0_2679+4<sup>†</sup>j; sub_0_2679+B<sup>†</sup>j
                           loc_0_268D:
268D 21 A6 62
268D 21 A6 62
268D CD E9 26
2690 CD E9 26
2693 32 A6 63
2696 3A 1A 60
2699 E6 1F
269B FE 02
269D CO
269E 11 F4 69
                                                     ld
call
ld
                                                                  hl, #unk_0_62A6
sub_0_26E9
(unk_0_63A6), a
                                                                   a, (gen_purpose_timer)
#0x1F
                                                      ld
                                                     and
cp
                                                                  NZ
de, #soft_sprite_ram+0xF4
                                                      ret
ld
26A1 EB
26A2 CD A6 26
26A5 C9
                                                     ex
call
                                                                  sub_0_26A6
                                                     ret
26A5
26A5
26A6
26A6
                            ; End of function sub_0_2679
                                                   SUBROUTINE
26A6
26A6
26A6
26A6 2C
                                                                                                                                   ; CODE XREF: sub_0_2602+29<sup>†</sup>p; sub_0_262F+36<sup>†</sup>p ...
                           sub_0_26A6:
26A6
26A7 1A
26A8 17
                                                     inc
ld
rla
                                                                  a, (de)
26A9 DA C5 26
26AC 7E
26AD 3C
                                                                  C, loc_0_26C5
a, (hl)
                                                      jp
ld
inc
```

#0x53 ; 'S

(hl), a a, 1 a, #4 l, a a, (hl)

NZ, loc\_0\_26B5 a, #0x50; 'P'

; CODE XREF: sub 0 26A6+A1 j

ср

ld ld add

1d

loc\_0\_26B5:

20AD 3C 26AE FE 53 26B0 C2 B5 26 26B3 3E 50 26B5

26B5 77 26B6 7D 26B7 C6 04

26B9 6F 26BA 7E

26B5

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26BB 3D
                                                              #0xCF ; '¤
                                                  ср
                                                             NZ, loc_0_26C3
a, #0xD2; 'Ê'
                                                                                                                          ; CODE XREF: sub 0 26A6+18 † †
                         loc_0_26C3:
                                                  14
                                                              (hl), a
                                                  ret
                          loc_0_26C5:
                                                                                                                          ; CODE XREF: sub_0_26A6+3 j
                                                 ld
dec
                                                             a, (hl)
                                                 cp
jp
ld
                                                             #0x4F; 'O'
NZ, loc_0_26CE
a, #0x52; 'R'
26CE
26CE
26CE 77
26CF 7D
26D0 C6 04
26D2 6F
26D3 7E
26D4 3C
                         loc_0_26CE:
                                                                                                                          ; CODE XREF: sub_0_26A6+231j
                                                 ld
ld
                                                              (hl), a
                                                             a, 1
a, #4
1, a
a, (h1)
                                                  add
                                                  ld
ld
26D4 3C
26D5 FE D3
26D7 C2 DC 26
26DA 3E D0
26DC
26DC
26DC
26DC 77
26DD C9
26DD
                                                  inc
                                                              #0xD3 ; 'Ë'
                                                  ср
                                                             NZ, loc_0_26DC
a, #0xD0; 'ŏ'
                                                                                                                         ; CODE XREF: sub_0_26A6+31 j
                         loc_0_26DC:
                                                  ld
                                                              (hl), a
                          ret
; End of function sub_0_26A6
26DD
26DE
26DE
26DE
26DE
                                                SUBROUTINE
26DE
26DE
26DE CB 7E
                                                                                                                          ; CODE XREF: sub_0_2602+11^p; sub_0_262F+1A^p ...
                          sub_0_26DE:
                                                             7, (hl)
Z, loc_0_26E6
(hl), #2
                                                 bit
26DE
26DE
26E0 CA E6 26
26E3 36 02
26E5 C9
                                                  ret
26E6
26E6
26E6
                                                                                                                          ; CODE XREF: sub_0_26DE+2<sup>†</sup>j
                         loc_0_26E6:
26E6
       36 FE
                                                 1d
                                                              (hl), #0xFE; '■'
                          ret; End of function sub_0_26DE
26E8 C9
26E8
26E8
26E9
26E9
26E9
26E9
                                SUBROUTINE
26E9
26E9 3A 1A 60
26E9
26EC E6 01
                                                                                                                          ; CODE XREF: sub_0_2602+17\uparrow p; sub_0_262F+20\uparrow p ...
                          sub 0 26E9:
                                                             a, (gen_purpose_timer)
#1
                                                  ld
                                                  and
26EC E6 01

26EE C8

26EF CB 7E

26F1 3E FF

26F3 2C F8 26

26F6 3E 01

26F8

26F8

26F8 77

26F9 C9
                                                             "1
Z
7, (h1)
a, #0xFF
NZ, loc_0_26F8
a, #1
                                                 ret
bit
ld
                                                  jp
ld
                                                                                                                          ; CODE XREF: sub_0_26E9+A^jj
                          loc_0_26F8:
                                                 ld
                                                             (hl), a
                          ret; End of function sub_0_26E9
26FA
26FA
26FA
26FA
                                                SUBROUTINE
; CODE XREF: 0000:19A71p
                         sub_0_26FA:
                                                             a, #4
0x30
a, (mario_x)
#0xF0; '-'
                                                  ld
                                                 rst
ld
                                                                                                                          ; return if level bit not set
                                                  cp
jp
ld
                                                             NC, mario_dies_on_elevator
a, (level)
                                                                                                                          ; make mario die
                                                 dec
ld
jp
and
                                                              a, (gen_purpose_timer)
NZ, loc_0_271A
                                                 cp
jp
jp
                                                             Z, loc_0_271E
C, loc_0_2722
                                                  ret
                         loc_0_271A:
                                                                                                                          ; CODE XREF: sub_0_26FA+12 j
                                                  rrca
271B DA 22 27
271E
                                                  jp
                                                             C, loc_0_2722
                          loc_0_271E:
                                                                                                                          ; CODE XREF: sub_0_26FA+19<sup>†</sup>j
271E CD 45 27
                                                  call
                                                              sub 0 2745
      C9
                                                                                                                          ; CODE XREF: sub_0_26FA+1C<sup>†</sup>j; sub_0_26FA+21<sup>†</sup>j
                         loc 0 2722:
2722 CD 97 27
2722 CD DA 27
2725 CD DA 27
                                                  call
                                                              sub_0_2797
sub_0_27DA
                                                  call
ld
2728 06 06
272A 11 10 00
272D 21 58 69
                                                             bu = 6
de, #0x10
hl, #soft_sprite_ram+0x58
ix, #unk_0_6600
                                                                                                                          ; six elevators
                                                  ld
ld
2730 DD 21 00 66
                                                  ld
                         loc_0_2734:
                                                                                                                          ; CODE XREF: sub_0_26FA+48|j
; store coordinates
```

a, 3(ix) (hl), a

a, 5(ix) (hl), a

ld inc inc

1d

2737 77 2738 2C 2739 2C 273A 2C

273B DD 7E 05 273E 77

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
2740 DD 19
2742 10 F0
2744 C9
2744
                                         add
                                                    ix, de
                     djnz loc_(
ret
; End of function sub_0_26FA
                                                   loc_0_2734
2744
```

```
SUBROUTINE |
                                sub_0_2745:
                                                                                                                                                     ; CODE XREF: sub_0_26FA+24\p
                                                                           a, (mario_on_elevator)
2748 A7
2749 C8
274A A7
274E C0
274F AA 03 62
2752 FE 2C
2754 DA 66 27
2757 FE 43
2759 DA 6F 27
275C FE 6C
2754 DA 66 27
2756 FE 83
2763 DA 87 27
2766
2766
                                                                                                                                                     ; on elevator?
                                                             and
                                                             ret
                                                                                                                                                     ; no, return
                                                             ld
and
                                                                           a, (mario_jumping)
                                                                                                                                                     ; jumping?
; yes, return
                                                                           a
NZ
                                                             ret
                                                             ld
cp
jp
                                                                                 (mario_y)
                                                                            C, loc_0_2766
                                                                                                                                                     ; not not elevator
                                                             cp
jp
cp
jp
cp
                                                                            #0x43
                                                                            C, loc_0_276F
#0x6C; '1'
C, loc_0_2766
                                                                                                                                                     ; on left elevator
                                                                                                                                                     ; not on elevator
                                                                           C, loc_0_2787
                                                                                                                                                     ; on right elevator
                                                                                                                                                     ; CODE XREF: sub_0_2745+F^{\dagger}j; sub_0_2745+19^{\dagger}j; mark off elevator
                               loc_0_2766:
 2766
 2766 AF
2766
2767
276A
                                                             xor
ld
inc
2766
2767 32 98 63
276A 3C
276B 32 21 62
276E C9
276F
276F
                                                                            a
(mario_on_elevator), a
                                                                           (unk_0_6221), a
                                                             1d
276F 3 05 62 2772 FE 71 2774 DA 7 27 2777 3 05 62 2778 32 05 62 2778 32 4F 69 277F 277F 277F AF 277F AF 277F AF 277F
 276F
                               loc_0_276F:
                                                                                                                                                    ; CODE XREF: sub_0_2745+14 j
                                                                           a, (mario_x)
#0x71 ; 'q'
                                                             ld
                                                             ср
                                                                           C, mario_dies_on_elevator
                                                             jp
dec
                                                                                                                                                    ; make mario die
; on upwards moving elevator
                                                                           (mario_x), a
(soft_sprite_ram+0x4F), a
                                                             ld
                                                             ret
                                                                                                                                                     ; CODE XREF: sub_0_26FA+8<sup>†</sup>j; sub_0_2745+2F<sup>†</sup>j ...
                               mario_dies_on_elevator:
277F 277F 2780 32 00 62 2783 32 98 63
                                                                            (mario_alive_flag), a
                                                             ld
                                                                           (mario_on_elevator), a
                                                             ld
 2786 C9
2787
2787
2787

2787

2787

3A 05 62

278A FE E8

278C D2 7F 27

278F 3C

2790 32 05 62

2793 32 4F 69

2796 C9
                               loc_0_2787:
                                                                                                                                                    ; CODE XREF: sub 0 2745+1E | j
                                                                           a, (mario_x)
#0xE8; 'b'
NC, mario_dies_on_elevator
                                                             1d
                                                             ср
                                                             jp
inc
                                                                                                                                                     ; on downwards moving elevator
                                                             ld
ld
                                                                           (mario_x), a
(soft_sprite_ram+0x4F), a
                                                             ret
 2796
                                ; End of function sub 0 2745
2796
2796
2797
2797
2797
2797
2797
2797 06 06
                                                          SUBROUTINE ...
                               sub_0_2797:
                                                                                                                                                        CODE XREF: sub_0_26FA+28\p
                                                             ld
                                                                           b, #6
                                                                                                                                                     ; move elevators to the right side
2799 11 10 00
279C DD 21 00 66
27A0
                                                             ld
ld
                                                                           de, #0x10
ix, #unk_0_6600
27A0 27A0 DD CB 00 46 27A4 CA C2 27 27A7 DD CB 0D 5E 27AB CA C7 27 27AE DD 7E 05 27B1 3D 27B2 DD 77 05
                               loc_0_27A0:
                                                                                                                                                    ; CODE XREF: sub_0_2797+2D | j
                                                                           0, 0(ix)
Z, loc_0_27C2
3, 0xD(ix)
                                                             bit
                                                             jp
bit
                                                                           Z, loc_0_27C7
a, 5(ix)
                                                             jp
ld
dec
                                                                           a
5(ix), a
"2~60;
27B5 FE 60
27B7 C2 C2 27
27BA DD 36 03 77
27BE DD 36 0D 04
                                                                           #0x60; '\'
NZ, loc_0_27C2
3(ix), #0x77; 'w'
0xD(ix), #4
                                                             ld
 27C2
27C2
27C2 DD 19
27C2
                                                                                                                                                     ; CODE XREF: sub_0_2797+D<sup>†</sup> j ; sub_0_2797+20<sup>†</sup> j ...
                                loc_0_27C2:
                                                                           ix, de
loc_0_27A0
                                                             add
 27C4 10 DA
27C6 C9
27C7
                                                             djnz
ret
27C7
27C7
27C7
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
27D7
27D7
27D7
                               loc_0_27C7:
                                                                                                                                                    ; CODE XREF: sub_0_2797+14 j
                                                             ld
                                                                           a, 5(ix)
                               inc a
inc a
id 5(ix), a
cp #0xF8; '°'
jp NZ, loc_0_27C2
id 0(ix), #0
jp loc_0_27C2
; End of function sub_0_2797
 27DA
 27DA
27DA
                                                          SUBROUTINE
 27DA
27DA
27DA
27DD
                                                                                                                                                     ; CODE XREF: sub_0_26FA+2B^p; move elevators to the left side
                               sub 0 27DA:
27DA 21 A7 62 27DD 7E 27DE A7 27DF C2 06 08 27E2 00 66 27E4 DD 21 00 66
                                                             ld
ld
                                                                           hl, #unk_0_62A7
a, (hl)
                                                             and
                                                                           NZ, loc_0_2806
                                                                           b, #6
ix, #unk_0_6600
                                                             ld
 27E8
                               loc_0_27E8:
                                                                                                                                                     ; CODE XREF: sub_0_27DA+17|j
```

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
                                                                          0, 0(ix)
Z, loc_0_27F4
 27E8 DD CB 00 46
27EC CA F4 27
                                                            bit
                                                            jp
add
djnz
 27EC CA F4
27EF DD 19
27F1 10 F5
27F3 C9
                                                                           ix, de loc_0_27E8
27F3 C9
27F4
27F4
27F4 DD 36 00 01
27F8 DD 36 03 37
27FC DD 36 05 F8
2800 DD 36 05 08
2804 36 34
                               loc_0_27F4:
                                                                                                                                                   ; CODE XREF: sub_0_27DA+12 j
                                                            ld
                                                                           0(ix), #1
                                                                          0(1x), #1
3(ix), #0x37; '7'
5(ix), #0xF8; '°'
0xD(ix), #8
(h1), #0x34; '4'
                                                            ld
ld
ld
                                                            ld
2804 36
2806
2806 35
2807 C9
2807
2807
2808
                               loc_0_2806:
                                                                                                                                                   ; CODE XREF: sub_0_27DA+5 j
                                                                           (hl)
                                                           ret
                               ; End of function sub_0_27DA
                                                           SUBROUTINE
 2808
 2808
2808
2808
                                                                                                                                                   ; CODE XREF: 0000:19B31p
2808 | 2808 FD 21 00 62 280C 3A 05 62 280F 4F 2810 21 07 04 2813 CD 6F 28 2816 A7 2817 CB 2818 3D 2819 32 00 62 281C 281C 281C 281C 281C 281D
                               sub 0 2808:
                                                                          iy, #mario_alive_flag
a, (mario_x)
                                                            ld
                                                            ld
ld
                                                                               a
, #0x407
                                                                           c,
hl,
                                                            ld
                                                            call
and
ret
                                                                           sub_0_286F
                                                                                                                                                   ; die
                                                            dec
                                                            1d
                                                                           (mario_alive_flag), a
                                                            ret
                               ; End of function sub_0_2808
281D
281D
281D
                                                           SUBROUTINE
281D
281D
281D
281D 06 02
281F 11 10 00
2822 FD 21 80 66
2826
2826
2826 FD CB 01 46
                               sub 0 281D:
                                                                                                                                                   ; CODE XREF: 0000:19B6 p
                                                                          b, #2
de, #0x10
                                                            ld
                                                            ld
                                                                           iy, #unk_0_6680
                                                                                                                                                   ; hammer character data
                               loc_0_2826:
                                                                                                                                                   ; CODE XREF: sub_0_281D+12|j
 2826 FD CB 01 46
                                                                          0, 1(iy)
NZ, loc_0_2832
iy, de
loc_0_2826
                                                            bit
2826 FD CB 01
282A C2 32 28
282D FD 19
282F 10 F5
2831 C9
2832
2832
2832
2832 FD 4E 05
                                                            jp
add
djnz
                               loc_0_2832:
                                                                                                                                                   ; CODE XREF: sub_0_281D+D^j
2832 2832 FD 4E 05 2835 FD 66 09 2838 FD 6E 0A 283B CD 6F 28 2845 A7 283F CS 2846 32 56 63 2846 90 2847 32 54 63 2848 32 53 63 2846 DD 22 51 63 2852 C9 2852
                                                                          c, 5(iy)
h, 9(iy)
1, 0xA(iy
                                                            1d
                                                            ld
ld
                                                            call
                                                                           sub_0_286F
                                                            and
ret
ld
ld
                                                                           (unk_0_6350)
                                                                          a, (unk_0_63B9)
b
                                                            sub
                                                            ld
ld
                                                                           (unk_0_6354), a
                                                                           a, e
(unk_0_6353), a
(unk_0_6351), ix
                                                            ld
                                                            14
                               ret; End of function sub_0_281D
 2852
2852
2853
2853
2853
2853
2853
2853 FD 21 00 62
2857 3A 05 62
                                                           SUBROUTINE
                               sub_0_2853:
                                                                                                                                                   ; CODE XREF: sub_0_1AC3+15D^p
                                                                          iy, #mario_alive_flag
a, (mario_x)
                                                            ld
                                                            ld
2857 3A 05 62
285A C6 0C
285C 4F
285D 3A 10 60
2860 E6 03
2862 21 08 05
2865 CA 6B 28
2868 21 08 13
2868 22 08 13
                                loc_0_285A:
                                                                           a, #0xC
                                                            add
                                                            1d
                                                            ld
and
ld
                                                                               (controller_in)
                                                                                                                                                   ; left/right only
                                                                           hl, #0x508
                                                                          Z, loc_0_286B
hl, #0x1308
                                                            jp
ld
                                                                                                                                                   ; not left/right
286B
286B CD 88 3E
                               loc_0_286B:
                                                                                                                                                   ; CODE XREF: sub 0 2853+121j
                                                            call
                                                                           sub 0 3E88
 286E C9
286E
                               ret; End of function sub_0_2853
 286E
286F
286F
286F
286F
                                                          SUBROUTINE
286F 286F 3A 27 62 286F 3E 27 62 2872 E5 2873 EF 2873 EF 2874 00 00 2876 80 28 2878 B0 28 2878 E0 28 2876 01 29 2876 00 00 2880
                                                                                                                                                   ; CODE XREF: sub_0_2808+B\p ; sub_0_281D+1E\p
                               sub_0_286F:
                                                                          a, (level_type)
hl
                                                            ld
                                                            push
rst
```

0x28

.dw 11 check hammer hit .dw 12\_check\_hammer\_hit .dw 13\_check\_hammer\_hit

hl b, #0xA a, b

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

14\_check\_hammer\_hit

.dw 0

.dw

.dw

pop ld ld

1d

11\_check\_hammer\_hit:

2880 2880

2880 2880 E1 2881 06 0A 2883 78

2884 32 B9 63 2887 11 20 00

; go! ; Jump table

; DATA XREF: sub 0 286F+7 o

```
288A DD 21 00 67
288E CD 13 29
2891 06 05
2893 78
2894 32 B9 63
2897 1E 20
2899 DD 21 00 64
289D CD 13 29
28A0 06 01
28A2 78
                                                                                ix, #unk_0_6700
                                                                ld
                                                                call
ld
ld
ld
                                                                               sub_0_2913
b, #5
a, b
(unk_0_63B9), a
                                                                               e, #0x20 ; ' ix, #unk_0_6400
                                                                ld
                                                                ld
call
ld
                                                                                                                                                            ; fireball character data
                                                                                sub_0_2913
                                                                               b, #1
a, b
(unk_0_63B9), a
28A2 78
28A3 32 B9 63
28A6 1E 00
28A8 DD 21 A0 66
                                                                ld
ld
ld
                                                                                e, #0
ix, #unk_0_66A0
                                                                ld
 28AC CD 13 29
28AF C9
28AF
28AF
                                                                call
                                                                                sub_0_2913
                                 ret; End of function sub_0_286F
28B0
28B0
28B0
; DATA XREF: sub_0_286F+9\daggered{o} o ; sub_0_3E88+9\daggered{o}
                                 12_check_hammer_hit:
                                                                             hl
b, #5
                                                                pop
ld
ld
                                                                               a, b (unk_0_63B9), a
                                                                ld
                                                                ld
ld
                                                                                de, #0x20; ''
ix, #unk_0_6400
                                                                                                                                                             ; fireball character data
                                                                call
                                                                                sub 0 2913
                                                                ld
ld
ld
ld
                                                                               b, #6
a, b
(unk_0_63B9), a
                                                                               (unk_0_63B9), a
e, #0x10
ix, #unk_0_65A0
sub_0_2913
b, #1
a, b
                                                                ld
call
ld
ld
                                                                ld
ld
ld
                                                                                (unk_0_63B9), a
e, #0
ix, #unk_0_66A0
                                                                call
                                                                                sub_0_2913
28E0 E1
28E0
                                                                                                                                                             ; DATA XREF: sub_0_286F+B<sup>o</sup>
                                 13_check_hammer_hit:
                                                                                                                                                             ; sub_0_3E88+B o
28E0 28E1 06 05 28E3 78 28E4 32 89 63 28E7 11 20 00 64 28EE CD 13 29 28F1 06 0A 28E7 1E 10 28F9 DD 21 00 65 28FD CD 13 29 2900 C9 2900 C9 2900 C9 2900 C9
                                                                pop
ld
                                                                               h; #5
a, b
(unk_0_63B9), a
de, #0x20; ''
ix, #unk_0_6400
                                                                ld
                                                                ld
ld
                                                                                                                                                             ; fireball character data
                                                                ld
                                                                call
ld
ld
                                                                                sub_0_2913
b, #0xA
a, b
                                                                ld
ld
ld
                                                                                (unk_0_63B9), a
                                                                               e, #0x10
ix, #unk_0_6500
sub_0_2913
                                                                                                                                                             ; check if hammer hits a spring
call
                                                                                                                                                             ; DATA XREF: sub_0_286F+D↑o; sub_0_3E88+Dトo
                                 14 check hammer hit:
                                                                               hl
b, #7
                                                                pop
ld
                                                                              a, b

(unk_0_63B9), a

de, #0x20; ''

ix, #unk_0_6400

` 2913
                                                                ld
                                                                ld
                                                                ld
ld
                                                                                                                                                             ; fireball character data
                                                                call
                                                               SUBROUTINE
2913
2913
2913
2913 DD E5
                                 sub_0_2913:
                                                                                                                                                             ; CODE XREF: sub_0_286F+1F<sup>p</sup>; sub_0_286F+2E<sup>p</sup> ...
2913 DD E5
2913 DD E5
2913 CD E5
2915
2915 DD CB 00 46
2919 CA 4C 29
2910 79
291D DD 96 05
2920 D2 25 29
2923 ED 44
2925
2925 C
2926 95
2927 DA 30 29
2920 D2 4C 29
2920 D2 4C 29
2930
2930
2930
2930
2930 D2 4C 29
2930 D3 2930
2930 D3 2930
2930 D4 29
2930 D5 03
2930 D6 03
2933 D7 7E 03
2933 D9 60
2939 D9 44
2938
                                                                push
                                                                                ix
                                 loc_0_2915:
                                                                                                                                                             ; CODE XREF: sub_0_2913+3B|j
                                                                                0. 0(ix)
                                                                                                                                                             ; check if hammer hits something else
                                                                jp
ld
                                                                                Z, loc_0_294C
                                                                                a, c
5(ix)
                                                                sub
                                                                jp
neg
                                                                                NC, loc_0_2925
                                 loc 0 2925:
                                                                                                                                                             ; CODE XREF: sub 0 2913+D| j
                                                                inc
                                                                sub
jp
sub
                                                                               1
C, loc_
0xA(ix)
                                                                                    loc_0_2930
                                                                                NC, loc_0_294C
                                                                jp
                                 loc_0_2930:
                                                                                                                                                             ; CODE XREF: sub_0_2913+14 j
                                                                               a, 3(iy)
3(ix)
NC, loc_0_293B
                                                                ld
                                                                sub
                                                                 jp
2939 ED 44
2938
2938
2938 94
293C DA 45 29
293F DD 96 09
2942 D2 4C 29
2945
2945
2945 3E 01
2947 DD E1
2949 33
294A 33
294B C9
                                                                neg
                                 loc_0_293B:
                                                                                                                                                             ; CODE XREF: sub_0_2913+23 j
                                                                sub
                                                                               h
C, loc_0_2945
9(ix)
                                                                qŗ
                                                                sub
                                                                                NC, loc_0_294C
                                                                jp
                                 loc 0 2945:
                                                                                                                                                             ; CODE XREF: sub 0 2913+291 j
                                                                               a, #1
ix
                                                                ld
                                                                pop
inc
inc
                                                                                sp
                                                                                sp
294B C9
294C
294C
                                                                                                                                                             ; CODE XREF: sub_0_2913+6<sup>†</sup>j; sub_0_2913+1A<sup>†</sup>j ...
                                 loc 0 294C:
 294C DD 19
```

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
                                                                                                                               ix, de loc_0_2915
294E 10 C5
2950 AF
2951 DD E1
2953 C9
2953
2954
2954
2954
2954
2954
2954
2954 3E 0B
2956 F7
2957 CD 74 29
2950 OF
2950 OF
 294E 10 C5
                                                                                                       dinz
                                                                                                     xor
pop
ret
                                                                                                                                iх
                                                     ; End of function sub_0_2913
                                                     ; SUBROUTINE
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_1AC3+171↑p
                                                     sub_0_2954:
                                                                                                       ld
                                                                                                                               a, #0xB
0x30
                                                                                                      rst
call
                                                                                                                                                                                                                                                           ; return if level bit not set
                                                                                                                                sub 0 2974
                                                                                                                               (unk_0_6218), a
                                                                                                       rrca
295D OF
295E OF
295F 32 85 60
2962 78
2963 A7
2964 C8
2965 FE 01
2967 CA 6F 29
296A DD 36 01 01
296E C9
296F
296F
                                                                                                      rrca
ld
ld
                                                                                                                                (digital_snd_tmr_barrel_jump_priz), a
                                                                                                                               a, b
a
Z
                                                                                                       and
                                                                                                      ret
cp
                                                                                                                                       loc_0_296F
                                                                                                       jp
ld
                                                                                                                               1(ix), #1
                                                                                                                                                                                                                                                           ; CODE XREF: sub 0 2954+131 i
 296F
                                                    loc_0_296F:
296F DD 36 11 01
2973 C9
2973
                                                                                                       ld
                                                                                                                               0x11(ix), #1
                                                                                                       ret
                                                     ; End of function sub_0_2954
2973
2974
2974
2974
                                                                                                  SUBROUTINE
2974
2974
2974
2974 FD 21 00 62
2978 3A 05 62
2978 4F
297C 21 08 04
297F 06 02
2981 11 10 00
2984 DD 21 80 66
2988 CD 13 29
298B C9
298B
                                                    sub_0_2974:
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_2954+31p
                                                                                                                               iy, #mario_alive_flag
                                                                                                       ld
                                                                                                      ld
ld
ld
ld
                                                                                                                               a, (mario_x)
                                                                                                                              c, a
h1, #0x408
b, #2
de, #0x10
ix, #umk_0_6680
sub_0_2913
                                                                                                      ld
call
                                                                                                                                                                                                                                                           ; hammer character data
                                                    ret; End of function sub_0_2974
 298B
298B
298C
298C
298C
298C
298C
                                                                                                    SUBROUTINE
298C 24 C8 63 298F 7D 299F 7D 2999 6F 2995 7E 2996 C6 C 2998 5F 2999 EB 2999 CB C 50 C 2998 FF BO 2990 A AC 29 2943 AF 2948 C9 2948 C9
                                                     sub_0_298C:
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_3202+3C|p
                                                                                                       1d
                                                                                                                               hl, (unk_0_63C8)
                                                                                                      ld
add
ld
                                                                                                                              a,
a,
1,
                                                                                                                                      #0xE
                                                                                                      ld
inc
ld
                                                                                                                               d,
1
a,
                                                                                                                                        (hl)
                                                                                                                                        (hl)
                                                                                                      add
ld
                                                                                                                               a, #0x0
e, a
                                                                                                       ex
call
                                                                                                                               de, hl
get_tilemap_addr_from_coords
                                                                                                      ld
                                                                                                                               a, (hl)
#0xB0;
                                                                                                       cp
jp
and
                                                                                                                                         loc_0_29AC
                                                                                                      cp
jp
xor
                                                                                                                               NC, loc_0_29AC
                                                                                                       ret
29AC
29AC
29AC
29AC 3E 01
                                                    loc_0_29AC:
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_298C+14<sup>†</sup> j ; sub_0_298C+1B<sup>†</sup> j
29AC 3E
29AC 29AE C9
29AE
29AE
                                                                                                     1d
                                                                                                                               a, #1
                                                                                                       ret
                                                      ; End of function sub_0_298C
29AF
29AF
29AF
                                                                                                     SUBROUTINE
 29AF
29AF
29AF
29AF
29AF
3E
04
29B1 F7
29B2 FD 21 00 62
29B6 3A 05 62
29B9 4F
29BA 21 08 04
29BD C2 22
                                                      sub_0_29AF:
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_2B1C+7|p
                                                                                                                               a, #4
0x30
                                                                                                                                                                                                                                                           ; return if level bit not set
                                                                                                       rst
ld
                                                                                                                               iy, #mario_alive_flag
a, (mario_x)
                                                                                                      ld
ld
ld
                                                                                                                               c,
hl,
                                                                                                                                            #0x408
29BA 21 08 04
29BD CD 22 2A
29C0 A7
29C1 CA 20 2A
29C4 3E 06
29C6 90
29C7
29C7
                                                                                                      call and
                                                                                                                               sub_0_2A22
                                                                                                                               Z, loc_0_2A20
                                                                                                       jp
ld
                                                                                                                               a, #6
                                                                                                       sub
                                                                                                                               b
                                                     loc_0_29C7:
                                                                                                                                                                                                                                                           ; CODE XREF: sub_0_29AF+1E|j
                                                                                                      jp
add
dec
 29C7 CA DO 29
                                                                                                                               Z, loc_0_29D0
 29CA DD 19
29CC 3D
29CD C3 C7 29
                                                                                                                               ix, de
                                                                                                                               a
loc_0_29C7
```

; CODE XREF: sub\_0\_29AF+18<sup>†</sup>j

; check if on or below elevator

qŗ

ld sub ld ld

add

cp jp ld

sub ld

a, 5(ix) #4

d, (mai. a, (mai. a, #5 d NC, loc\_0\_29EE a, d x), a

(mario\_y\_before\_jump)

d, a

loc\_0\_29D0:

29D0 29D0 29D0

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

29E2 32 05 62

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
 29E5 3E 01
                                                                                                                       a, #1
                                                                                                                                                                                                                                           ; flag on elevator
                                                                                                ld
 29E7
                                                                                                ld
                                                                                                                       b.
 29E7 47
29E8 32 98 63
29EB 33
29EC 33
29ED C9
                                                                                                ld
inc
inc
                                                                                                                       (mario_on_elevator), a sp
                                                                                                                       sp
                                                                                                ret
 29EE
29EE
29EE
29EE 29EE 3A OC 62 29F1 D6 0E 29F3 BA 29F4 D2 1B 2A 29F7 3A 10 62 29FB A7 29FB A OS 62 24 2AOS C 3 OE 2A 2AOS C
                                                  loc_0_29EE:
                                                                                                                                                                                                                                           ; CODE XREF: sub_0_29AF+2D^j
                                                                                                1d
                                                                                                                       a, (r
#0xE
                                                                                                                                                                                                                                           ; collide with side of elevator
                                                                                                                              (mario_y_before_jump)
                                                                                                sub
cp
                                                                                                jp
ld
and
ld
                                                                                                                       NC, loc_0_2A1B
                                                                                                                                (unk_0_6210)
                                                                                                                       a, (mario_y)
Z, loc_0_2A08
                                                                                                jp
or
sub
                                                                                                                        loc_0_2A0E
                                                                                                jр
loc_0_2A08:
                                                                                                                                                                                                                                           ; CODE XREF: sub_0_29AF+4F<sup>†</sup> j
                                                                                                                       #8
#7
                                                                                                sub
                                                                                                or
                                                                                                                       a, #4
                                                                                                add
                                                 loc_0_2A0E:
                                                                                                                                                                                                                                          ; CODE XREF: sub 0 29AF+56 i
                                                                                                14
                                                                                                                        (mario v).
                                                                                                ld
ld
ld
                                                                                                                        (soft_sprite_ram+0x4C), a
                                                                                                                       a, #1
b, #0
                                                                                                inc
inc
ret
                                                                                                                        sp
sp
                                                   loc_0_2A1B:
                                                                                                                                                                                                                                           ; CODE XREF: sub_0_29AF+45 j
                                                                                                xor
                                                                                                                       (mario_alive_flag), a
                                                                                                1d
                                                                                                                                                                                                                                           ; CODE XREF: sub 0 29AF+121i
                                                 loc_0_2A20:
                                                                                                ld
ret
                                                                                                                       b, a
                                                  ; End of function sub_0_29AF
                                                                                             SUBROUTINE
                                                 sub_0_2A22:
                                                                                                                                                                                                                                          ; CODE XREF: sub_0_29AF+E1p
                                                                                                ld
                                                                                                                       b, #6
                                                                                                                       de, #0x10
ix, #unk_0_6600
sub_0_2913
                                                                                                1d
                                                                                               ld
call
                                                                                               ret
; End of function sub_0_2A22
                                                  ; UBROUTINE
                                                                                                                                                                                                                                           ; CODE XREF: sub_0_1F72+E5<sup>p</sup>; sub_0_1F72+188<sup>p</sup>
                                                  sub_0_2A2F:
                                                                                                                      a, 3(ix)
h, a
a, 5(ix)
a, #4
l, a
                                                                                                14
                                                                                                ld
ld
                                                                                                add
                                                                                               ld
push
call
                                                                                                                              a
                                                                                                                      get_tilemap_addr_from_coords de a, (h1) #0x80; '#'
                                                                                                pop
ld
                                                                                                cp
jp
and
cp
jp
ld
                                                                                                                              loc_0_2A7B
                                                                                                                       C, lo
#0xF
                                                                                                                       #8
NC, loc_0_2A7B
                                                                                                                       a, (h1)
#0xC0; 'L'
                                                                                                cp
jp
cp
jp
cp
                                                                                                                       Z, loc_0_2A7B
C, loc_0_2A69
                                                                                                                        #0xD0 ;
                                                                                                                       C, loc_0_2A6E
#0xE0 ; 'Ó'
                                                                                                                       C, loc_0_2A63
#0xF0; '-'
                                                                                                jp
cp
jp
 2A60 DA 6E 2A
2A63
2A63
                                                                                                                       C, loc_0_2A6E
                                                  loc_0_2A63:
                                                                                                                                                                                                                                          ; CODE XREF: sub_0_2A2F+2C|j
 2A63 E6 OF
2A65 3D
2A66 C3 72 2A
                                                                                                and
dec
                                                                                                                       #0xF
                                                                                                                        loc_0_2A72
                                                                                                jр
 2A69
 2A69
2A69
2A69
                                                   loc_0_2A69:
                                                                                                                                                                                                                                           ; CODE XREF: sub_0_2A2F+22|j
               3E FF
                                                                                                ld
 2A6B C3 72 2A
                                                                                                jр
                                                                                                                        loc 0 2A72
 2A6E
2A6E
2A6E
                                                                                                                                                                                                                                           ; 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<sup>†</sup> j ; sub\_0\_2A2F+3C<sup>†</sup> j

2A6E E6 OF

2A6E E6 0F
2A6E
2A70 D6 09
2A72
2A72
2A72
2A72
2A72
2A73
7B
2A74 E6 F8
2A76 81
2A77 BB
2A78 DA 7D

2A78 DA 7D 2A

loc 0 2A72:

ld and

add ср

jp

a, e #0xF8 ; '°'

C, loc 0 2A7D

```
; CODE XREF: sub_0_2A2F+12<sup>†</sup>j; sub_0_2A2F+19<sup>†</sup>j ...
 2A7B
                             loc_0_2A7B:
2A7B
2A7B AF
2A7B AF
2A7C C9
2A7D
2A7D
2A7D
2A7D
2A7D
D6 04
2A7F DD 77 05
2A82 3E 01
2A84 C9
2A84
2A84
2A85
                              loc_0_2A7D:
                                                                                                                                              ; CODE XREF: sub_0_2A2F+49 j
                                                          sub
                                                                        #4
5(ix), a
                                                          ld
                                                          ld
                                                                        a, #1
                              ret; End of function sub_0_2A2F
SUBROUTINE
                              sub_0_2A85:
                                                                                                                                              ; CODE XREF: 0000:19A1<sup>p</sup>
                                                                       a, (mario_climbing)
                                                                                                                                              ; climbing?
                                                          and
                                                          ret
                                                                       NZ
                                                                                                                                              ; yes, return
                                                                        a, (mario_jumping)
                                                          ld
and
                                                                                                                                              ; jumping?
; yes, return
                                                                       a
NZ
                                                          ret
ld
                                                                             (mario_on_elevator)
                                                          cp
ret
                                                                                                                                              ; on elevator?
; yes, return
                                                          1d
                                                                        a, (mario_y)
#3
                                                          sub
                                                          ld
ld
add
                                                                            (mario_x)
                                                                       a, (mar:
a, #0xC
1, a
1d
                                                                            a
                                                          push
call
                                                                       ...
get_tilemap_addr_from_coords
de
                                                          pop
ld
cp
jp
and
                                                                        de
a, (hl)
#0xB0; '\'\'
C, loc_0_2AB4
                                                                        C, 1
#0xF
                                                                        NC, loc_0_2AB4
                                                          jр
                                                          ret
                              loc_0_2AB4:
                                                                                                                                              ; CODE XREF: sub_0_2A85+24<sup>†</sup> j
; sub_0_2A85+2B<sup>†</sup> j
                                                                        a, d
#7
Z, loc_0_2ACD
                                                          ld
                                                          and
                                                          jp
ld
                                                                       bc, #0x20;
hl, bc
a, (hl)
                                                          sbc
ld
                                                                        a, (hl)
#0xB0;
                                                          ср
2AC2 DA CD 2A
2AC5 E6 OF
2AC7 FE 08
2AC9 D2 CD 2A
                                                          jp
and
                                                                            loc_0_2ACD
                                                          ср
                                                                        #8
NC, loc_0_2ACD
                                                          jр
; CODE XREF: sub_0_2A85+32<sup>†</sup>j
; sub_0_2A85+3D<sup>†</sup>j ...
                              loc 0 2ACD:
                                                          ld
ld
                                                                        a, #1 (unk_0_6221), a
         32 21 62
                                                          ret
; End of function sub_0_2A85
                                     SUBROUTINE
                                                                                                                                              ; CODE XREF: sub_0_25F2+C1p
                              sub_0_2AD3:
                                                          1d
                                                                        a, (mario_y)
                                                                       b, a
a, (mario_x)
                                                          ld
ld
                                                          cp
jp
cp
                                                                        #0x50 ;
ZADA FE 50

ZADC CA EA 2A

ZADF FE 78

ZAE1 CA F6 2A

ZAE4 FE C8

ZAE6 CA F0 2A

ZAE9 C9

ZAEA
                                                                        Z, loc_0_2AEA
#0x78 ; 'x'
                                                                        Z, loc_0_2AF6
                                                          cp
jp
ret
                                                                        Z, loc_0_2AF0
2AEA
2AEA
2AEA
2AEA
2AEA
3A A3 63
2AED C3 02 2B
2AF0
2AF0
2AF0
2AF0
2AF0
2AF0
2AF3
3A A6 63
                              loc_0_2AEA:
                                                                                                                                              ; CODE XREF: sub_0_2AD3+9<sup>†</sup>j
                                                                        a, (unk_0_63A3)
loc_0_2B02
                                                          jр
                              loc_0_2AF0:
                                                                                                                                              ; CODE XREF: sub_0_2AD3+13 j
                                                                            (unk_0_63A6)
                                                          ld
2AF3 C3 02 2B
2AF6
2AF6
2AF6
                                                          jp
                                                                        loc_0_2B02
ZAF6 2AF6 78 2AF7 FE 80 2AF7 FE 80 2AF7 AA A5 63 2AFC D2 02 2B02 2B02 2B02 2B02 2B03 32 03 62 2B06 32 4C 69 2B09 CD 1F 24 2B0C 21 03 62 2B0F 1D 2B10 CA 18 2B 2B13 15 2B14 CA 1A 2B 2B17 C9 2B18 2B18 2B18
                                                                                                                                              ; CODE XREF: sub_0_2AD3+E^j
                              loc 0 2AF6:
                                                                       a, b

#0x80; 'C'

a, (unk_0_63A5)

NC, loc_0_2B02

a, (unk_0_63A4)
                                                          ld
                                                          cp
ld
                                                                                                                                              ; CODE XREF: sub_0_2AD3+1A<sup>†</sup>j; sub_0_2AD3+20<sup>†</sup>j ...
                              loc 0 2B02:
                                                          add
1d
                                                                       a, b
(mario_y), a
(soft_sprite_ram+0x4C), a
sub_0_241F
                                                          ld
                                                          call
ld
dec
                                                                        hl, #mario_y
                                                                        e
Z, loc_0_2B18
                                                          jp
dec
                                                                       d
Z, loc_0_2B1A
                                                          jp
 2B18
```

```
loc_0_2B18:
                                                                                                                      ; CODE XREF: sub_0_2AD3+3D<sup>†</sup> j
2B18 35
2B19 C9
2B1A
2B1A
                                                           (h1)
2B1A
2B1A 34
2B1B C9
2B1B
                                                                                                                     ; CODE XREF: sub 0 2AD3+411
                        loc_0_2B1A:
                                                            (hl)
                        ret; End of function sub_0_2AD3
2B1B
2B1C
2B1C
2B1C
                                               SUBROUTINE
2B1C
2B1C
2B1C 2B1C DD 21 00 62
2B20 CD 29 2B
2B23 CD AF 29
2B26 AF
2B27 47
2B28 C9
                        sub_0_2B1C:
                                                                                                                     ; CODE XREF: sub_0_1AC3+142\p
                                                ld
call
                                                           ix, #mario_alive_flag
sub_0_2B29
                                                call
xor
ld
                                                            sub_0_29AF
                                                            a
b, a
                                                ret
2B28
2B28
2B28
2B29
                         ; End of function sub_0_2B1C
SUBROUTINE
                        sub_0_2B29:
                                                                                                                      ; CODE XREF: sub 0 2B1C+41p
                                                ld
                                                           a, (level_type)
                                                dec
jp
ld
                                                            NZ, loc_0_2B53
                                                           a, (mario_y)
h, a
a, (mario_x)
                                                ld
ld
add
                                                1d
                                                call
and
jp
ld
                                                            sub_0_2B9B
                                                            a
Z, loc_0_2B51
                                                sub
cp
                                                           NC, loc_0_2B74
                                                jp
ld
                                                sub
                                                            (mario_x), a
                                                ld
                                                            a, #1
b, a
                                                14
                         loc_0_2B51:
                                                                                                                     ; CODE XREF: sub_0_2B29+15 j
                                                qoq
                                                           hl
loc 0 2B53:
                                                                                                                     ; CODE XREF: sub 0 2B29+41 j
                                                           a, (mario_y)
#3
                                                1d
                                                sub
ld
                                                            h, a
                                                ld
add
ld
call
                                                            a, (mario_x)
a, #7
1, a
                                                            sub 0 2B9B
                                                cp
jp
ld
                                                            Z, loc_0_2B7A
                                                           a, #7
h, a
                                                add
                                                ld
ld
                                                call
                                                            sub_0_2B9B
                                                and
                                                ret
                                                            loc_0_2B7A
                                                jp
                         loc_0_2B74:
                                                                                                                     ; CODE XREF: sub_0_2B29+1C<sup>†</sup>j
                                                ld
ld
                                                           a, #0
b, #0
2876 06 00
2878 E1
2879 C9
287A
287A
287A
287A 3A 10 62
287A
                                                            hl
                                                                                                                     ; CODE XREF: sub_0_2B29+3B<sup>†</sup>j; sub_0_2B29+48<sup>†</sup>j
                         loc_0_2B7A:
                                                           a, (unk_0_6210)
                                                ld
2B7A

2B7D A7

2B7E 3A 03 62

2B81 CA 8B 2B

2B84 F6 07

2B86 D6 04
                                                and
                                                ld
jp
                                                               (mario_y)
loc_0_2B8B
                                                sub
2B88 C3 91 2B
2B8B
2B8B
                                                            loc 0 2B91
2B8B
2B8B D6 08
2B8D F6 07
2B8F C6 04
                                                                                                                     ; CODE XREF: sub_0_2B29+58 j
                        loc_0_2B8B:
                                                sub
                                                add
                                                            a. #4
2B91
2B91
2B91
                         loc_0_2B91:
                                                                                                                      ; CODE XREF: sub_0_2B29+5F<sup>†</sup> j
       32 03 62
                                                ld
                                                            (mario_y), a
(soft_sprite_ram+0x4C), a
2B94 32 4C 69
2B97 3E 01
2B99 E1
2B9A C9
                                                ld
                                                           a, #1
hl
                                                ld
                                                pop
                                                ret
2B9A
2B9A
2B9B
                         ; End of function sub_0_2B29
                         ; SUBROUTINE
2B9B
2898
2898
2898
2898
2898 E5
                                                                                                                      ; CODE XREF: sub_0_2B29+11^p; sub_0_2B29+36^p ...
                         sub_0_2B9B:
2B9B
2B9C CD F0 2F
2B9F D1
                                                push
call
                                                           ...
get_tilemap_addr_from_coords
de
                                                pop
ld
                                                           a, (hl)
#0xB0; '
                                                                (hl)
2BA0
2BA1 FE B0
```

```
2BA3 DA D9 2B
                                                                             C, loc_0_2BD9
2BA3 DA D9 2B
2BA6 E6 OF
2BA8 FE 08
2BAA D2 D9
2BAB FE C0
2BB0 CA D9 2B
2BB3 DA DC 2B
2BB6 FE D0
2BB8 DA CB 2B
2BBB FE E0
2BBD DA C5 2B
2BC DA CB 2B
                                                              and
                                                                              #0xF
                                                              cp
jp
ld
                                                                             #0
NC, loc_0_2BD9
a, (h1)
#0xC0; 'L'
                                                              cp
jp
cp
jp
                                                                             Z, loc_0_2BD9
C, loc_0_2BDC
                                                                             C, io-_
#0xD0 ; 'ð'
C, loc_0_2BCB
                                                                                   loc_0_2BC5
                                                              ср
                                                                              #0xF0 ;
ZBC0 FE F0
2BC2 DA CB 2B
2BC5
2BC5
2BC5 E6 0F
2BC7 3D
2BC8 C3 CF 2B
2BCB
                                                              jp
                                                                             C, loc_0_2BCB
                                loc_0_2BC5:
                                                                                                                                                        ; CODE XREF: sub_0_2B9B+22<sup>†</sup>j
                                                              and
                                                                             #0xF
                                                              dec
                                                                             loc_0_2BCF
                                                              jр
 2BCB
 2BCB
2BCB E6 OF
                                                                                                                                                        ; CODE XREF: sub_0_2B9B+1D\uparrow j ; sub_0_2B9B+27\uparrow j
                                loc_0_2BCB:
                                                              and
                                                                              #0xF
 2BCD D6 09
                                                              sub
 2BCF
2BCF
2BCF 4F
                                                                                                                                                        ; CODE XREF: sub_0_2B9B+2D1j
                                loc_0_2BCF:
                                                                             c, a
a, e
#0xF8
                                                              ld
                                                              ld
and
add
ld
 2BD0 7B
 2BD0 7B
2BD1 E6 F8
2BD3 81
2BD4 4F
                                                                                        ; 101
                                                                             a, c
c, a
                                                                             e
C, loc_0_2BE1
2BD5 BB
2BD6 DA E1 2B
2BD9
2BD9
                                                              cp
jp
                                                                                                                                                         ; CODE XREF: sub_0_2B9B+8 j
                                loc 0 2BD9:
2BD9 AF
2BD9 2BDA 47
                                                                                                                                                         ; sub_0_2B9B+F↑j ...
                                                              xor
ld
                                                                             b, a
2BDA 47
2BDB C9
2BDC
2BDC
2BDC 7B
2BDD 66 F8
2BDF 3D 2
2BE1 3A 0C 62
2BE1 3A 0C 62
2BE4 DD 96 05
2BE7 83
2BE8 B9
2BE9 CA EF 2B
2BEC D 2 F8 2B
                                                              ret
                                loc 0 2BDC:
                                                                                                                                                        ; CODE XREF: sub_0_2B9B+18<sup>†</sup>j
                                                              ld
                                                                              #0xF8 ; '°'
                                                              ld
                                                                             c, a
                                loc_0_2BE1:
                                                                                                                                                         ; CODE XREF: sub_0_2B9B+3B<sup>†</sup> j
                                                              ld
                                                                                   (mario_y_before_jump)
                                                                             a, (m. 5(ix)
                                                              sub
                                                              add
cp
                                                                             a, e
                                                                             C
Z, loc_0_2BEF
                                                              jр
2BEC D2 F8 2B
2BEF
2BEF
2BEF 79
                                                              jp
                                                                             NC, loc_0_2BF8
                                                                                                                                                        ; CODE XREF: sub_0_2B9B+4E<sup>†</sup>j
                                loc_0_2BEF:
                                                              ld
                                                                             a, c
#7
2BF0 D6 07
2BF2 32 05 62
2BF5 C3 FD 2B
2BF8
                                                              sub
ld
jp
                                                                              (mario_x),
loc_0_2BFD
 2BF8
 2BF8
2BF8
                                loc_0_2BF8:
                                                                                                                                                        ; CODE XREF: sub_0_2B9B+51 j
2BF8
2BF8 3E 02
2BFA 06 00
2BFC C9
2BFD
2BFD
                                                                            a, #2
b, #0
                                                              ld
 2BFD
                                loc_0_2BFD:
                                                                                                                                                        ; CODE XREF: sub_0_2B9B+5Afj
2BFD 3E 01
2BFF 47
2C00 E1
2C01 E1
2C02 C9
2C02
2C02
                                                                             a, #1
b, a
hl
                                                              ld
ld
                                                              pop
                                                              pop
ret
                                                                             hl
                                ; End of function sub_0_2B9B
2C02
2C03
2C03
2C03
2C03
2C03
2C03
                                                            SUBROUTINE
2003
2003
2003
2003
2003
3E 01
2005 F7
2006 D7
2007 3A 93 63
2008 D8
200C 3A B1 62
200F A7
2010 C8
2011 4F
2012 3A B0 62
2015 D6 02
2017 B9
2018 DA 7B 2C
2018 DA 7B 2C
2018 DA 7B 2C
2018 DA 63
2016 CB 4F
2020 C2 86 2C
2023 A8 06 3
2026 47
2027 3A 1A 60
202A E6 1F
202C
                                sub_0_2C03:
                                                                                                                                                        ; CODE XREF: 0000:19891p
                                                                             a, #1
0x30
                                                                                                                                                        ; return if level bit not set ; return if mario not alive
                                                              rst
                                                              rst
                                                                             0x10
                                                              ld
rrca
                                                                             a, (barrel_deployment)
                                                              ret
ld
and
ret
ld
                                                                             a, (unk 0 62B1)
                                                              1d
                                                                             a, (bonus_timer_init_value)
#2
                                                              sub
                                                                             c
C, loc_0_2C7B
                                                              jp
ld
bit
jp
ld
                                                                                   (unk_0_6382)
                                                                             NZ, loc_0_2C86
                                                                                   (unk 0 6380)
                                                                             a,
b,
                                                              ld
                                                                                   a
(gen_purpose_timer)
                                                               ld
                                                              and
2C2C
2C2C
2C2C
                                loc_0_2C2C:
                                                                                                                                                        ; CODE XREF: sub_0_2C03+2D|j
                                                              ср
2C2C B8
2C2D CA 33 2C
2C30 10 FA
2C32 C9
2C33
2C33
                                                                             Z, loc_0_2C33
loc_0_2C2C
                                                              jp
djnz
ret
                                loc_0_2C33:
                                                                                                                                                        ; CODE XREF: sub_0_2C03+2A<sup>†</sup> j
 2C33 3A B0 62
2C36 CB 3F
                                                              ld
                                                                             a, (bonus_timer_init_value)
                                                              srl
                                                              cp
jp
 2C38 B9
 2C39 DA 41 2C
                                                                             C, loc_0_2C41
```

2CE6 7E

ld

a, (hl)

```
2C3C 3A 19 60
                                                        ld
                                                                     a, (random_no+1)
 2C3F OF
                                                        rrca
2C40 D0
2C41
2C41
                                                                     NC
                             loc_0_2C41:
                                                                                                                                        ; CODE XREF: sub_0_2C03+36 j
 2C41 CD 57 00
2C44 E6 0F
                                                        call
                                                                     rand
                                                                     #0xF
NZ, loc_0_2C86
 2C44 E0 0F
2C46 C2 86 2C
2C49
                                                        jр
2C49
2C49 3E 01
2C4B
2C4B
                                                                                                                                       ; CODE XREF: sub_0_2C03+7B|j
                            loc_0_2C49:
                                                       ld
                                                                     a, #1
                                                                                                                                       ; CODE XREF: sub_0_2C03+80|j
                            loc_0_2C4B:
2C4B 32 82 63
2C4E 3C
2C4F
2C4F
                                                       1d
                                                                     (unk_0_6382), a
                                                                                                                                        ; CODE XREF: sub_0_2C03+89 | j
loc 0 2C4F:
                                                                     (unk_0_638F), a
a, #1
(unk_0_6392), a
                                                       1d
                                                        ld
ld
                                                                     a, (unk_0_62B2)
                                                        ld
                                                       cp
ret
                                                        sub
ld
                                                                     (unk_0_62B2), a
de, #0x20; '
h1, #unk_0_6400
                                                        ld
ld
                                                                                                                                       ; fireball character data
                                                        ld
                                                                     b, #5
                             loc_0_2C69:
                                                                                                                                       ; CODE XREF: sub_0_2C03+6C|j
                                                        ld
                                                                     a, (hl)
                                                        and
Z, loc_0_2C72
hl, de
loc_0_2C69
                                                       jp
add
djnz
                                                        ret
                            loc_0_2C72:
                                                                                                                                       ; CODE XREF: sub_0_2C03+68 j
2C72
2C72 3A 82 63
2C75 F6 80
2C77 32 82 63
2C7A C9
2C7B
2C7B
2C7B
                                                                     a, (unk_0_6382)
#0x80 ; 'C'
                                                       ld
                                                                     (unk_0_6382), a
                                                        ret
                                                                                                                                        ; CODE XREF: sub_0_2C03+15<sup>†</sup>j
                            loc_0_2C7B:
                                                        add
                                                                     a, #2
 2C7D B9
2C7E CA 49 2C
2C81 3E 02
2C83 C3 4B 2C
                                                        cp
jp
ld
                                                                     Z, loc_0_2C49
                                                                     loc 0 2C4B
                                                        jр
 2C86
2C86
2C86
                             loc_0_2C86:
                                                                                                                                        ; CODE XREF: sub_0_2C03+1D<sup>†</sup> j
; sub_0_2C03+43<sup>†</sup> j
 2C86 AF
 2C86 2C87 32 82 63 2C8A 3E 03
                                                       ld
ld
                                                                     (unk_0_6382), a
2C8A 3E 03
2C8C C3 4F 2C
2C8C
2C8C
2C8F
2C8F
                                                                     loc_0_2C4F
                             jp loc_
; End of function sub_0_2CO3
                                   SUBROUTINE ...
2C8F
2C8F 3E 01
2C91 F7
2C92 D7
2C93 3A 93
                            sub_0_2C8F:
                                                                                                                                        ; CODE XREF: 0000:1986 p
                                                                     a, #1
0x30
0x10
                                                        14
                                                                                                                                        ; return if level bit not set
; return if mario not alive
                                                       rst
rst
        3A 93 63
OF
                                                                     a, (barrel_deployment)
                                                        ld
2C93 3A 93 63

2C96 0F

2C97 DA 15 2D

2C9A 3A 92 63

2C9D 0F

2C9E DO

2C9F DD 21 00 67

2CA3 11 20 00

2CA6 06 0A

2CA8

2CA8

2CA8 DD 7E 00

2CA6 DA B3 2C

2CAF OF

2CAC DA B3 2C

2CAF OF

2CBO D2 B8 2C
 2C96
2C97
2C9A
                                                        rrca
jp
ld
                                                                    C, loc_0_2D15
a, (unk_0_6392)
                                                       rrca
ret
ld
                                                                     ix, #unk_0_6700
                                                        ld
                                                                     de.
                                                                            #0x20 ;
                                                        ld
                                                                     b, #0xA
                            loc_0_2CA8:
                                                                                                                                       ; CODE XREF: sub_0_2C8F+26|j
                                                        ld
                                                                     a.0(ix)
                                                       rrca
jp
                                                                     C, loc_0_2CB3
                                                        rrca
 2CB0 D2 B8 2C
                                                                     NC, loc_0_2CB8
                                                        jp
2CB3 2CB3 DD 19 2CB5 10 F1
                                                                                                                                        ; CODE XREF: sub_0_2C8F+1D<sup>†</sup> j
                            loc_0_2CB3:
                                                        add
djnz
                                                                     ix, de loc_0_2CA8
2CB7 C9
2CB8
2CB8
2CB8 2CB8 DD 22 AA 62 2CBC DD 36 00 02 2CC0 16 00 2CC2 3E 0A 2CC4 90 2CC5 87
                            loc 0 2CB8:
                                                                                                                                       ; CODE XREF: sub 0 2C8F+211 +
                                                       ld
ld
ld
                                                                     (unk_0_62AA), ix
                                                                     0(ix), #2
d, #0
                                                       ld
sub
add
                                                                     a, #0xA
b
2CC5 87
2CC6 87
2CC7 5F
2CC8 21 80 69
2CCC 19
2CCC 22 AC 62
2CCF 3E 01
2CD1 32 93 63
2CD4 11 01 05
2CD7 CD 9F 30
2CDA 21 B1 62
2CDA 35
2CDE 22 E6 22
2CE1 3E 01
                                                                     a, a
a, a
                                                       add
ld
ld
                                                                     e, a
hl, #soft_sprite_ram+0x80
                                                        add
ld
                                                                     (unk_0_62AC), hl
                                                       ld
ld
ld
                                                                     a, #1 (barrel_deployment), a
                                                                    de, #0x501
queue_fg_vector_fn
h1, #unk_0_62B1
(h1)
NZ, loc_0_2CE6
                                                                                                                                       ; update bonus timer (tick)
                                                       call
ld
dec
                                                        jp
ld
 2CE1 3E 01
2CE3 32 86 63
2CE6
                                                                     (unk_0_6386), a
 2CE6
                            loc 0 2CE6:
                                                                                                                                       ; CODE XREF: sub 0 2C8F+4F1 j
```

```
NC, loc_0_2CF6
hl, #soft_sprite_ram+0xA8
a, a
a, a
                                                                       jp
ld
add
add
2CE9 D2 F6 2C
2CE9 D2 F6 2C

2CEC 21 A8 69

2CEF 87

2CF0 87

2CF1 5F

2CF2 16 00

2CF4 19

2CF5 72
                                                                                        e, a
d, #0
hl, d
                                                                       ld
                                                                       ld
                                                                                         hl, de
(hl), d
                                                                       add
                                                                       ld
2CF6
2CF6
2CF6 DD 36 07 15
2CFA DD 36 08 0B
2CFE DD 36 15 00
2D02 3A 82 63
2D05 07
                                    loc_0_2CF6:
                                                                                                                                                                              ; CODE XREF: sub_0_2C8F+5A<sup>†</sup>j
; sideways barrel sprite tile
                                                                                        7(ix), #0x15
8(ix), #0xB
0x15(ix), #0
a, (unk_0_6382)
                                                                       ld
                                                                       ld
ld
rlca
2D05 07
2D06 D2 15 2D
                                                                                         NC, loc_0_2D15
                                                                       jp
ld
ld
ld
2D09 DD 36 07 19
2D0D DD 36 08 0C
2D11 DD 36 15 01
2D15
                                                                                        7(ix), #0x19
8(ix), #0xC
0x15(ix), #1
                                                                                                                                                                              ; sideways blue barrel sprite tile
; set blue palette for barrel
2D15
2D15
2D15 21 AF 62
2D15
                                                                                                                                                                              ; CODE XREF: sub_0_2C8F+8<sup>†</sup>j; sub_0_2C8F+77<sup>†</sup>j
                                    loc_0_2D15:
                                                                                        hl, #byte_0_62AF (hl)
                                                                       ld
2D18 35
                                                                       dec
2D19 C0
2D1A 36 18
2D1C 3A 8F 63
2D1F A7
                                                                                         NZ
(hl), #0x18
                                                                                        a, (unk_0_638F)
                                                                       ld
                                                                       and
2D1F A7
2D20 CA 51 2D
2D23 4F
2D24 21 32 39
                                                                       jp
ld
ld
                                                                                         Z, loc_0_2D51
                                                                                        c, a
hl, #dk_throw_barrel_spr
2D27 3A 82 63
2D2A 0F
2D2B DA 2F 2D
2D2E 0D
                                                                                        a, (unk_0_6382)
                                                                       ld
                                                                       rrca
                                                                                        C, loc_0_2D2F
                                                                       jp
                                                                       dec
2D2F
2D2F
2D2F
2D2F
2D2F
2D2F 79
2D2F 79
2D30 87
2D31 87
2D32 87
2D33 4F
2D34 87
2D35 87
2D36 81
2D37 5F
2D38 16 00
2D3A 19
2D3B CD 4E 00
2D3B 21 8F 63
2D41 35
2D42 C2 51 2D
2D45 3E 01
2D47 32 AF 62
2D4A 3A 82 63
2D4D 0F
2D4E DA 83 2D
                                    loc_0_2D2F:
                                                                                                                                                                              ; CODE XREF: sub_0_2C8F+9C↑j
                                                                       ld
                                                                                        a, c
                                                                                        a, a
a, a
a, a
                                                                       add
                                                                       add
                                                                                         c, a
a, a
a, a
a, c
                                                                       1d
                                                                       add
                                                                       add
add
                                                                       ld
ld
                                                                       add
call
                                                                                       mi, de

copy_sprites_2_11_data

h1, #unk_0_638F

(h1)

NZ, loc_0_2D51

a, #1

(but-0_1
                                                                                         hl, de
                                                                       ld
                                                                       jp
ld
                                                                                         (byte_0_62AF),
                                                                       1d
                                                                       ld
                                                                                         a, (unk_0_6382)
                                                                       rrca
                                                                                        C, loc_0_2D83
                                                                       jр
2D51
2D51
2D51
2D51 2A A8 62
2D51
                                                                                                                                                                               ; CODE XREF: sub_0_2C8F+91\uparrow j; sub_0_2C8F+B3\uparrow j
                                    loc_0_2D51:
                                                                                        hl, (unk_0_62A8)
                                                                       ld
2D54
2D54

2D54 7E

2D55 DD 2A AA 62

2D59 ED 5B AC 62

2D5D FE 7F

2D5F CA 8C 2D
                                    loc_0_2D54:
                                                                                                                                                                              ; CODE XREF: sub_0_2C8F+FA|j
                                                                                         a, (hl)
                                                                                        ix, (unk_0_62AA)
de, (unk_0_62AC)
#0x7F; '
Z, loc_0_2D8C
                                                                       ld
                                                                       14
                                                                       ср
                                                                       jp
1d
2D62 4F
2D62 4F
2D63 E6 7F
2D65 12
2D66 DD 7E 07
2D69 CB 79
2D6B CA 70 2D
2D6E EE 03
2D70
2D70
                                                                                         c, a
#0x7F ; ' '
                                                                       and
ld
                                                                                        (de), a
a, 7(ix)
7, c
                                                                                                                                                                              ; sprite data X coord
; sprite tile #
                                                                       ld
                                                                       bit
                                                                       jp
xor
                                                                                        Z, loc_0_2D70
2D70
2D70
2D70 13
2D71 12
2D72 DD 77 07
                                    loc_0_2D70:
                                                                                                                                                                              ; CODE XREF: sub_0_2C8F+DC j
                                                                                        (de), a 7(ix), a
                                                                                                                                                                              ; sprite tile # (barrel)
; sprite tile #
                                                                       ld
                                                                       ld
2D72 DD 7F 08
2D75 DD 7E 08
2D78 13
2D79 12
                                                                       ld
inc
                                                                                             8(ix)
                                                                                         (de), a
2D7A 23
2D7B 7E
2D7C 13
                                                                                       a, (hl)
de
                                                                       inc
2D7B
2D7C
2D7C
2D7D
2D7E
                                                                       ld
inc
ld
                                                                                        (de), a
           12
23
2D7F 22 A8 62
2D82 C9
2D83
                                                                       ld
                                                                                         (unk_0_62A8), hl
                                                                       ret
2D83
2D83
2D83 21 CC 39
2D86 22 A8 62
                                    loc_0_2D83:
                                                                                                                                                                              ; CODE XREF: sub_0_2C8F+BF j
                                                                                        hl, #barrel_falling_data (unk_0_62A8), hl
                                                                       ld
                                                                       ld
2D80 22 A6 02
2D89 C3 54 2D
2D8C
2D8C
                                                                                         loc_0_2D54
                                                                                                                                                                              ; CODE XREF: sub 0 2C8F+D01i
DBSC 2D8C 21 C3 39 2D8F 22 A8 62 2D95 2D 36 01 01 2D96 3A 82 63 2D99 0F 2D9A DA A5 2D 2D9D DD 36 01 00 2DA1 DD 36 02 02 2DA5 2DA5 DD 36 00 01
2D8C
                                    loc 0 2D8C:
                                                                                        hl, #barell_rolling_data
(unk_0_62A8), hl
1(ix), #1
a, (unk_0_6382)
                                                                       ld
ld
                                                                       ld
                                                                       rrca
jp
ld
                                                                                        C, loc_0_2DA5
1(ix), #0
2(ix), #2
                                                                       ld
                                    loc_0_2DA5:
                                                                                                                                                                            ; CODE XREF: sub_0_2C8F+10Bfj
2DA5 DD 36 00 01
                                                                       ld
                                                                                         0(ix), #1
2DAS DD 36 00 01

2DA9 DD 36 0F 01

2DAD AF

2DAE DD 77 10

2DB1 DD 77 11

2DB4 DD 77 12
                                                                       ld
xor
ld
                                                                                         0xF(ix), #1
                                                                                         a
0x10(ix), a
                                                                                        0x10(ix), a
0x12(ix), a
                                                                       1d
```

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
2DB7 DD 77 13
2DBA DD 77 14
                                                                                      0x13(ix), a
                                                                     ld
                                                                                     0x14(ix), a
(barrel_deployment), a
(unk_0_6392), a
a, (de)
3(ix), a
de
                                                                     ld
2DBA DD 77 14
2DBD 32 93 63
2DC0 32 92 63
2DC3 1A
2DC4 DD 77 03
2DC7 13
2DC8 13
2DC9 13
         32 93 63
32 92 63
1A
                                                                     ld
ld
ld
                                                                     ld
inc
inc
                                                                                     de
de
                                                                                  de
a, (de)
5(ix), a
hl, #dk_normal_spr
copy_sprites_2_11_data
hl, #soft_sprite_ram+0xB
c, #0xFC; '3'
--28
                                                                     ld
2DCA
2DCA 1A
2DCB DD 77 05
2DCE 21 5C 38
2DD1 CD 4E 00
2DD4 21 0B 69
2DD7 0E FC
2DD9 FF
2DDA C9
                                                                     ld
ld
                                                                     call
                                                                     ld
ld
                                                                                                                                                                         ; sprite #2, x coord
; -4
                                                                     rst
                                                                                                                                                                         ; subtract 4 from x coord for 10 sprites
                                                                     ret
2DDA
2DDA
2DDB
                                    ; End of function sub_0_2C8F
2DDB
2DDB
2DDB
2DDB
2DDB
                                                                  SUBROUTINE
                                   sub 0 2DDB:
                                                                                                                                                                        ; CODE XREF: 0000:1995 p
2DDB 2DDB 3E 0A 2DDD F7 2DDE D7 2DDF 3A 80 63 2DE2 3C 2DE3 47 2DE4 1F 2DE5 47 62
                                                                                     a, #0xA
0x30
0x10
                                                                     ld
                                                                                                                                                                         ; return if level bit not set
; return if mario not allive
                                                                     rst
rst
                                                                     ld
inc
and
rra
ld
                                                                                     a, (unk_0_6380)
a
                                                                                     b, a
2DE5 47
2DE6 3A 27 62
2DE9 FE 02
2DEB 20 01
2DED 04
                                                                                           (level_type)
                                                                     ld
                                                                     ср
                                                                                      NZ, loc_0_2DEE
                                                                     jr
                                                                     inc
                                                                                      b
2DEE 04
2DEE
2DEE 2DEE 3E FE
                                    loc_0_2DEE:
                                                                                                                                                                        ; CODE XREF: sub_0_2DDB+10 i
                                                                                      a, #0xFE ; '
                                                                     ld
2DEE 3E FE
2DF0 37
2DF1
2DF1
2DF1 1F
2DF2 A7
2DF3 10 FC
2DF5 47
2DF6 3A 1A 60
2DF9 A0
                                                                     scf
                                    loc_0_2DF1:
                                                                                                                                                                         ; CODE XREF: sub_0_2DDB+18|j
                                                                     rra
and
                                                                     djnz
ld
                                                                                     loc_0_2DF1
                                                                     ld
                                                                                      a, (gen_purpose_timer)
b
2DF6 3A 1A 60

2DF9 AO

2DFA CO

2DFB 3E 01

2DFD 32 AO 63

2E00 32 9A 63

2E03 C9

2E03 292
                                                                     and
                                                                     ret
ld
                                                                                      ΝZ
                                                                                      a, #1
                                                                                      (unk_0_63A0), a
(unk_0_639A), a
                                                                     ld
                                                                     ld
                                                                     ret
                                    ; End of function sub_0_2DDB
2E03
2E04
2E04
2E04
                                                                   SUBROUTINE
2E04
2E04
2E04
2E04 3E 04
2E06 F7
2E07 D7
                                    sub_0_2E04:
                                                                                                                                                                         ; CODE XREF: 0000:198F1p
                                                                                     a, #4
0x30
                                                                     ld
                                                                                                                                                                         ; return if level bit not set ; return if mario not alive
                                                                     rst
                                                                     rst
                                                                                      0x10
2E07 D7
2E08 DD 21 00 65
2E0C FD 21 80 69
2E10 06 0A
2E12
2E12
2E12 DD 7E 00
2E15 0F
2E16 D2 A7 2E
2E19 3A 1A 60
2E1C E6 0F
2E1E C2 29 2E
                                                                     ld
ld
                                                                                      ix, #unk_0_6500
iy, #soft_sprite_ram+0x80
                                                                     ld
                                                                                     b, #0xA
                                                                                                                                                                         ; CODE XREF: sub_0_2E04+7D|j
; any active springs?
                                    loc_0_2E12:
                                                                     ld
                                                                                     a, 0(ix)
                                                                     rrca
jp
ld
                                                                                     NC, loc_0_2EA7
a, (gen_purpose_timer)
                                                                                                                                                                         ; no, skip
                                                                                      a, (
#0xF
                                                                     and
                                                                                     NZ, loc_0_2E29
a, l(iy)
#7
2E1E C2 29 2E
2E21 FD 7E 01
2E24 EE 07
2E26 FD 77 01
                                                                     jp
ld
                                                                                                                                                                         ; animate spring sprites
                                                                     xor
ld
                                                                                      1(iy), a
2E26 FD 77 01
2E29
2E29 DD 7E 0D
2E2C FE 04
2E2E CA 84 2E
2E31 DD 34 03
2E37 DD 66 0E
2E3A DD 66 0E
                                    loc_0_2E29:
                                                                                                                                                                        ; CODE XREF: sub_0_2E04+1A j
                                                                     ld
                                                                                      a, 0xD(ix)
                                                                     cp
jp
inc
                                                                                     #4
Z, loc_0_2E84
3(ix)
3(ix)
                                                                                     1, 0xE(ix)
h, 0xF(ix)
a, (h1)
                                                                     ld
2E37 DD 6E 0E

2E3A DD 66 0F

2E3D 7E

2E3E 4F

2E3F FE 7F

2E41 CA 9C 2E

2E44 23

2E45 DD 86 05

2E48 DD 77 05
                                                                     ld
ld
                                                                     ld
                                                                                      c, a
#0x7F ; '
                                                                     cp
jp
inc
add
                                                                                     Z, loc_0_2E9C
hl
a, 5(ix)
                                                                                     a, 5(ix)
5(ix), a
2E48 DD 86 05
2E48 DD 77 05
2E48 2E48
2E4B DD 75 0E
2E4E DD 74 0F
2E51 DD 7E 03
2E54 FE B7 66 3E
                                                                     1d
                                   loc_0_2E4B:
                                                                                                                                                                        ; CODE XREF: sub_0_2E04+A0|j
                                                                                     0xE(ix), 1
0xF(ix), h
a, 3(ix)
#0xB7; 'A'
                                                                     ld
                                                                     ld
ld
                                                                     cp
jp
ld
cp
ZE54 FE B7
2E56 DA 6C 2E
2E59 79
2E5A FE 7F
2E5C C2 6C 2E
2E5F DD 36 0D 04
                                                                                      C, loc_0_2E6C
                                                                                     #0x7F; ' '
NZ, loc_0_2E6C
```

jp ld

xor ld

ld

ld

ld

ld

1d

loc\_0\_2E6C:

2E63 AF 2E64 32 83 60 2E67 3E 03 2E69 32 84 60

2E6C 2E6C 2E6C DD 7E 03

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

2E6C

2E78

0xD(ix), #4

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

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

(digital\_snd\_tmr\_coin\_spring), a

a, #3
(digital\_snd\_tmr\_kong\_fall), a

; stop timer

; CODE XREF: sub\_0\_2E04+52<sup>†</sup> j ; sub\_0\_2E04+58<sup>†</sup> j ...

; x corrd to sprite data

; y coord to sprite data

; tmr=3

```
CODE XREF: sub_0_2E04+A7|jsub_0_2E04+CD|j
 2E78
                                   loc_0_2E78:
 2E78 11 10 00
2E78 11 10
2E78
2E7B DD 19
2E7D 1E 04
2E7F FD 19
2E81 10 8F
2E83 C9
2E84
2E84
                                                                                     de, #0x10
ix, de
e, #4
iy, de
loc_0_2E12
                                                                                                                                                                         ; 16 bytes/sprite
; next spring data
                                                                     add
ld
                                                                     add
                                                                                                                                                                         ; next sprite data
                                                                     djnz
ret
2E84
                                   loc_0_2E84:
                                                                                                                                                                         ; CODE XREF: sub_0_2E04+2A j
                                                                                     a, #3
a, 5(ix)
5(ix), a
#0xF8; '''
C, loc_0_2E6C
3(ix), #0
                                                                     add
                                                                     ld
cp
                                                                     jp
ld
                                                                     1d
                                                                                      0(ix)
                                                                     jp
                                   loc_0_2E9C:
                                                                                                                                                                         ; CODE XREF: sub_0_2E04+3D<sup>†</sup> j
                                                                                      hl, #bouncing_spring_data
                                                                                     a, #3
(digital_snd_tmr_coin_spring), a
loc_0_2E4B
                                                                                                                                                                         ; tmr=3
                                                                     ld
                                                                     ld
                                                                     jp
                                                                                                                                                                         ; CODE XREF: sub 0 2E04+1211
                                   loc_0_2EA7:
                                                                     ld
                                                                                     a, (unk_0_6396)
                                                                     rrca
                                                                                     NC, loc_0_2E78
2EAB D2 78 2E
2EAF AF
2EAF 32 96 63
2EB2 DD 36 05 50
2EBA CD 57 00
2EBD 66 0F
2EBF C6 F8
2EC1 DD 77 03
2EC4 DD 36 00 01
2EC8 21 AA 39
2ECB DD 74 0F
2ECD CD 74 0F
2ECD CD 74 0F
                                                                     jр
                                                                     xor
ld
ld
                                                                                     a (unk_0_6396), a 5(ix), #0x50; 0xD(ix), #1
                                                                                    0xD(1A,,
rand
#0xF
a, #0xF8; '°'
3(ix), a
''ix), #1
                                                                     ld
                                                                     call
and
add
                                                                     ld
                                                                                      O(ix), #1
hl, #bouncing_spring_data
OxE(ix), 1
OxF(ix), h
                                                                     ld
ld
                                                                     ld
                                                                     ld
 2ED1 C3 78 2E
2ED1
                                   jp loc_0_2E78
; End of function sub_0_2E04
                                                                                                                                                                         ; end of spring routine
2ED1
2ED1
2ED4
2ED4
2ED4
2ED4
2ED4
2ED4
2ED6
2ED6 F7
2ED7 D7
2ED8 11 18 6A
2EDB DD 21 80 66
2EDF DD 7E 01
2EE2 OF
                                                                 SUBROUTINE
                                   sub_0_2ED4:
                                                                                                                                                                         ; CODE XREF: 0000:1998 p
                                                                                     a, #0xB
0x30
0x10
                                                                                                                                                                         ; return if level bit not set
                                                                     rst
                                                                     rst
ld
ld
                                                                                                                                                                         ; return if mario not alive
; hammers in sprite ram
; hammer character data
                                                                                     de, #soft_sprite_ram+0x118
ix, #unk_0_6680
a, 1(ix)
                                                                     ld
2EE2 OF
2EE3 DA ED 2E
2EE6 11 1C 6A
2EE9 DD 21 90 66
                                                                     rrca
jp
ld
                                                                                     C, loc_0_2EED
de, #soft_sprite_ram+0x11C
ix, #unk_0_6690
                                                                     ld
2EED
                                   loc_0_2EED:
                                                                                                                                                                        ; CODE XREF: sub_0_2ED4+F^j
                                                                                     0xE(ix), #0
0xF(ix), #0xF0; '-'
a, (unk_0_6217)
                                                                     ld
                                                                     ld
                                                                     rrca
                                                                                      NC, loc_0_2F97
                                                                     jр
                                                                     xor
ld
ld
ld
                                                                                     a (unk_0_6218), a
hl, #bg_music
(hl), #4
9(ix), #6
                                                                     ld
                                                                     ld
ld
ld
                                                                                     0xA(ix), #3
b, #0x1E
a, (mario_flipy_tile)
ZFOF 3A 07 62
ZF12 CB 27
ZF14 D2 1B 2F
ZF17 F6 80
ZF19 CB F8
ZF1B
ZF1B F6 08
ZF11 CB 5F
ZF12 CB 5F
ZF12 CB 5F
ZF12 CB 5F
ZF13 A 94 63
ZF21 CB 5F
ZF23 CA 43 2F
ZF26 CB C0
ZF28 CB C1
ZF2A DD 36 0A 06
ZF32 DD 36 0F 00
ZF36 DD 36 0F 00
ZF36 DD 36 0F 00
ZF36 CB 79
ZF3C CA 43 2F
ZF3F DD 36 0F 10
                                                                     sla
jp
                                                                                     NC, loc_0_2F1B
#0x80 ; 'Ç'
7, b
                                                                     or
                                                                     set
                                   loc_0_2F1B:
                                                                                                                                                                         ; CODE XREF: sub_0_2ED4+40 j
                                                                                      #8
                                                                     or
                                                                     ld
                                                                     ld
bit
                                                                                            (unk_0_6394)
                                                                                     3, a
Z, loc_0_2F43
0, b
                                                                     jp
set
set
ld
                                                                                     0, b
0, c
9(ix), #5
0xA(ix), #6
0xF(ix), #0
0xE(ix), #0xF0; '-'
                                                                     ld
                                                                     ld
                                                                     ld
bit
                                                                                      7, c
Z, loc_0_2F43
2F3C CA 43 2F

2F3F DD 36 0E 10

2F43

2F43 79

2F44 79

2F44 32 4D 69

2F47 0E 07

2F49 21 94 63

2F4C 34

2F4D C2 B7 2F

2F5D 21 95 63

2F55 3 34

2F54 7E
                                                                     jp
ld
                                                                                      0xE(ix), #0x10
                                                                                                                                                                         ; CODE XREF: sub_0_2ED4+4F<sup>†</sup>j; sub_0_2ED4+68<sup>†</sup>j
                                   loc_0_2F43:
                                                                     ld
ld
                                                                                      (soft_sprite_ram+0x4D), a
                                                                                      c, #7
hl, #unk_0_6394
                                                                     ld
                                                                     inc
jp
ld
                                                                                      (h1)
NZ, loc_0_2FB7
                                                                                     hl, #unk_0_6395
(hl)
                                                                     inc
2F53 34
2F54 7E
2F55 FE 02
2F57 C2 BE 2F
2F5A AF
2F5B 32 95 63
2F5E 32 17 62
2F61 DD 77 01
                                                                                     a, (h1)
#2
                                                                     ср
                                                                                      NZ, loc_0_2FBE
                                                                     jp
xor
ld
                                                                                       (unk_0_6395), a
                                                                                      (unk_0_6217), a
                                                                     ld
                                                                                      1(ix), a
a, (mario_y)
                                                                     1d
 2F64 3A 03 62
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
2F67 ED 44

2F69 DD 77 0E

2F6C 3A 07 62

2F6F 32 4D 69

2F72 DD 36 00 00

2F76 3A 89 63

2F79 32 89 60
                                                       neg
                                                       ld
                                                                   UxE(ix), a
a, (mario_flipy_tile)
(soft_sprite_ram+0x4D), a
0(ix), #0
a, (unk_0_6389)
(bg_music), a
                                                                    0xE(ix).
                                                      ld
ld
ld
                                                       ld
                                                       ld
2F79 32
2F7C
2F7C
2F7C EB
2F7C
                                                                                                                                      ; CODE XREF: sub_0_2ED4+E0|j; sub_0_2ED4+E7|j ...
                            loc_0_2F7C:
                                                                   de, hl
a, (mario_y)
a, 0xE(ix)
 2F7D 3A 03 62
2F80 DD 86 0E
                                                       ld
                                                                                                                                      ; calc hammer X
                                                       add
 2F83 77
2F84 DD 77 03
2F87 23
2F88 70
                                                                    (hl), a
3(ix), a
hl
(hl), b
                                                       ld
ld
                                                       inc
ld
2F89 23
2F8A 71
2F8B 23
                                                       inc
ld
                                                                    h1
                                                                    (hl), c
                                                       inc
ld
                                                                   a, (mario_x)
a, 0xF(ix)
(h1), a
5(ix), a
 2F8C 3A 05 62
2F8F DD 86 0F
2F92 77
2F93 DD 77 05
                                                                                                                                     ; calc hammer Y
                                                       add
ld
                                                       ld
2F96 C9
                                                       ret
                            loc_0_2F97:
                                                                                                                                      ; CODE XREF: sub 0 2ED4+251j
                                                      14
                                                                    a, (unk_0_6218)
                                                      rrca
ret
ld
                                                                    NC
9(ix), #6
0xA(ix), #3
a, (mario_flipy_tile)
                                                      ld
ld
rlca
                                                                    a, #0x3C; '<'
                                                       1d
                                                       rra
ld
ld
                                                                    b, a
c, #7
a, (be
                                                                                                                                      ; hammer tile #
                                                       ld
                                                                         (bg_music)
                                                                    (unk_0_6389), a
loc_0_2F7C
                                                       1d
                                                       jp
                            loc_0_2FB7:
                                                                                                                                      ; CODE XREF: sub_0_2ED4+79<sup>†</sup> j
                                                       ld
                                                                    a, (unk_0_6395)
                                                       and
                                                                    a
Z, loc_0_2F7C
                                                       jр
 2FBE
2FBE
                             loc_0_2FBE:
                                                                                                                                      ; CODE XREF: sub_0_2ED4+83 j
2FBE 3A 1A 60
2FC1 CB 5F
2FC3 CA 7C 2F
2FC6 0E 01
                                                       ld
                                                                    a, (gen_purpose_timer)
                                                       bit
                                                       jp
ld
                                                                    Z, loc_0_2F7C
                                                          o loc_0_2F7C
sub_0_2ED4
 2FC8 C3 7C 2F
                            jp; End of function
 2FC8
2FC8
2FCB
SUBROUTINE
                                                                                                                                      ; CODE XREF: 0000:19BF1p
                            sub 0 2FCB:
                                                      ld
                                                                    a, #0xE
                                                                    0x30
hl, #unk_0_62B4
(hl)
                                                      rst
ld
                                                                                                                                      ; return if level bit not set
                                                       dec
                                                                   (1.
NZ
#3
                                                       ret
                                                       ld
ld
                                                                    (unk_0_62B9), a
                                                                   (unk_0_62B9), a

(unk_0_6396), a

de, #0x501

queue_fg_vector_fn

a, (unk_0_62B3)

(h1), a

h1, #unk_0_62B1

(h1) NZ
                                                       ld
                                                      ld
call
ld
                                                                                                                                      ; update_bonus_timer (tick)
                                                       ld
                                                      ld
dec
ret
2FEA 3E 01
2FEC 32 86 63
2FEF C9
                                                                        #1
                                                       1d
                                                                    a, #1
(unk_0_6386), a
                                                       ret
 2FEF
                            ; End of function sub_0_2FCB
2FEF
2FF0
2FF0
                            ; SUBROUTINE
2FF0
2FF0
2FF0
2FF0 7D
2FF0 7D
2FF0 2FF1 0F
2FF2 0F
2FF2 0F
2FF3 0F
                                                                                                                                         CODE XREF: draw_level_background+10<sup>p</sup>
                            get_tilemap_addr_from_coords:
                                                                                                                                      ; draw_level_background+3Dîp ...
; Y pos in bits [7:3]
                                                      ld
                                                                    a, 1
                                                       rrca
                                                       rrca
                                                      rrca
2FF4 E6 1F
2FF6 6F
2FF7 7C
2FF8 2F
                                                      and
ld
ld
                                                                                                                                      ; shift to [4:0]
; store as LSB of screen address
; X pos in bits [7:3]
                                                                    #0x1F
                                                                   l, a
a, h
                                                      cpl
and
ld
                                                                                                                                      ; mirror
2FF8 2F
2FF9 E6 F8
2FFB 5F
2FFC AF
2FFC 67
2FFE CB 13
3000 17
3001 CB 13
3003 17
                                                                    #0xF8
                                                       xor
                                                       1d
                                                                    h, a
                                                       rl
rla
                                                       rl
                                                                    е
                                                                                                                                      ; A=Xpos bits [7:6], E=[5:3]
                                                       rla
 3003 17
3004 C6 74
3006 57
3007 19
                                                       add
ld
                                                                    a, #0x74 ; 't'
d, a
                                                                                                                                         add start of VRAM store
```

hl, de

; End of function get\_tilemap\_addr\_from\_coords

; SUBROUTINE

add

ret

animate mario or barrel sprite:

3008 C9

3008 3008

3009

3009 57

; HL = screen address

; CODE XREF: 0000:18DF<sup>†</sup>p; sub\_0\_1AC3+1DB<sup>†</sup>p ...

```
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3009
                                                            ld
                                                                          d, a
                                                                                                                                                   ; sprite type
300A OF
300B DA 22 30
300E 0E 93
3010 OF
3011 OF
3012 D2 17 30
3015 OE 6C
3017
3017
3017
3017 07
3018 DA 31 30
3018 P9
3010 CE 6F F0
 300A OF
                                                            rrca
                                                           jp
ld
rrca
                                                                          C, loc_0_3022
c, #0x93; 'ô
                                                                                                                                                  ; sequence 3,0,1,2
                                                            rrca
                                                                          NC, loc_0_3017
c, #0x6C; '1'
                                                                                                                                                   ; sequence 0,3,2,1
                              loc 0 3017:
                                                                                                                                                  ; CODE XREF: animate_mario_or_barrel_sprite+9<sup>†</sup>j
                                                            rlca
                                                                          C, loc_0_3031
                                                            jp
ld
301C E6 F0
301E 4F
301F C3 31 30
3022
                                                                          #0xF0 ; '-'
                                                            and
                                                            ld
                                                                          loc_0_3031
                                                            jр
3022
3022
3022 0E B4
3024 0F
3025 0F
3026 D2 2B 30
3029 0E 1E
                                                                                                                                                  ; CODE XREF: animate_mario_or_barrel_sprite+2^j;
; sequence 0,1,3,2 (mario left)
                               loc_0_3022:
                                                            ld
                                                                          c, #0xB4 ; '-
                                                            rrca
                                                                                                                                                  ; moving sprite left?
; yes, skip
; sequence 2,3,1,0 (mario right)
                                                                          NC, loc_0_302B
                                                            jp
ld
                                                                          c, #0x1E
302B
302B
302B S 50
302B CB 50
302D CA 31 30
3030 05
3031
3031
79
                                                                                                                                                     CODE XREF: animate_mario_or_barrel_sprite+1D<sup>†</sup>j animation cell # not special case (not 4)
                               loc_0_302B:
                                                                          Z, loc 0 3031
                                                            jp
dec
                                                                                                                                                  ; CODE XREF: animate_mario_or_barrel_sprite+F<sup>†</sup>j
; animate_mario_or_barrel_sprite+16<sup>†</sup>j ...
                               loc_0_3031:
3031
3032 OF
3033 OF
3034 4F
                                                            1d
                                                            rrca
                                                            rrca
                                                            1d
                                                                          c, a
#3
3035 E6 03
3037 B8
3038 C2 31 30
                                                                                                                                                  ; get animation cell in sequence
; equals current cell?
; no, loop to find current cell
                                                            and
                                                            ср
                                                                          b
NZ, loc_0_3031
                                                            jp
ld
3036 C2 31
303B 79
303C 0F
303D 0F
303E E6 03
3040 FE 03
                                                            rrca
rrca
                                                                          #3
#3
                                                                                                                                                  ; get next animation cell #
; special case?
                                                            and
                                                            cp
ret
res
3040 FE 03
3042 C0
3043 CB 92
3045 15
3046 C0
3047 3E 04
3049 C9
                                                                         2,
d
                                                                              d
                                                            dec
                                                            ret
                                                                          NZ
                                                           ld
ret
                                                                          a, #4
                                                                                                                                                   ; special case animation cell
 3049
                               ; End of function animate_mario_or_barrel_sprite
3049
304A
304A
                                        SUBROUTINE
304A
304A
304A
304A 11 E0 FF
                                                                                                                                                     CODE XREF: display_1UP+9D<sup>p</sup> 0000:0B38<sup>p</sup>
                               wipe_ladder_as_kong_climbs:
304A 11 E0 FF
304A 3A 8E 63
3050 4F
3051 06 00
3053 21 00 76
3056 CD 64 30
3059 21 C0 75
305C CD 64 30
3062 35
3063 C9
3063 C9
                                                            1d
                                                                          de, #0xFFE0
                                                                                                                                                     column offset
                                                            ld
ld
                                                                                (byte_0_638E)
                                                                               a
#0
                                                            ld
                                                            ld
                                                                          hl, #VRAM_start+0x200
                                                            call
ld
                                                                          copy_tile_from_next_column
hl, #VRAM_start+0x1C0
                                                                          copy_tile_from_next_column
hl, #byte_0_638E
                                                            call
                                                           ld
dec
ret
                                                                          (hl)
; 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
                                                            add
                                                           ld
add
                                                            1d
                                                                          (hl), a
3068 C9
3068
3068
                               ret; End of function copy_tile_from_next_column
3068
3069
3069
3069
DF
3069
                                                                                                                                                     DATA XREF: display_1UP+2D\0
                               wait_and_inc_sequence:
                                                                                                                                                      display_1UP+31 o ... wait for 8-bit countdown
                                                                          hl, (ptr_current_sequence)
(hl)
                                                            rst
306A 2A CO 63
306D 34
306E C9
                                                           ld
inc
ret
306F
306F
306F
306F
                                                         SUBROUTINE
306F 306F 306F 21 AF 62 306F 27 AF 62 3072 34 3073 7E 3076 C0 3077 21 0B 69 3070 DE F 62 3070 DE F 62 3070 DE F 62 3082 CD 96 30 3082 CD 96 30 3085 21 1D 69 3088 CD 96 30 3088 CD 96 30 3088 CD 96 30 3088 CD 96 30 3088 CD 57 00 308E E6 80 3090 21 2D 69 3093 AE
                                                                                                                                                   ; CODE XREF: display_1UP+95\uparrowp; 0000:1732\uparrowp ...
                               animate_kong_climbing:
                                                            ld
                                                                          hl, #byte_0_62AF
                                                            inc
                                                                          (h1)
                                                           ld
and
                                                                          a, (hl)
#7
                                                            ret
                                                            ld
                                                                          hl,
                                                                                 #soft_sprite_ram+0xB
                                                                                                                                                  ; sprite #2, x coord
                                                                         nl, #soft_sprite_ram+0xB
c, #0xFC; '3'
0x38
c, #0x81; 'ŭ'
hl, #soft_sprite_ram+9
flip_2_tiles
hl, #soft_sprite_ram+0x1D
                                                            ld
rst
                                                            ld
                                                            ld
                                                                                                                                                  ; sprite #2, flipy & code
                                                           call
ld
call
                                                                                                                                                  ; sprite #7, flipy & code
                                                                          flip_2_tiles
                                                           call
and
ld
                                                                          #0x80 ; 'C'
hl, #soft_sprite_ram+0x2D
(hl)
                                                                                                                                                  ; Pauline kicking legs
```

3093 AE

3094 77

xor

ld

(hl), a

; sprite #11, flipy & code (Pauline)

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
3095 C9
                          ; End of function animate_kong_climbing
3095
3095
3096
3096
                                                SUBROUTINE
3096
3096
3096
3096 06 02
                                                                                                                             ; CODE XREF: animate_kong_climbing+13\uparrowp ; animate_kong_climbing+19\uparrowp
                          flip_2_tiles:
3096
                                                  ld
                                                               b, #2
3098
3098
3098
                                                                                                                             ; CODE XREF: flip_2_tiles+6|j
                          loc_0_3098:
                                                   ld
                                                               (hl)
(hl), a
hl, de
3099 AE
309A 77
309B 19
309C 10
                                                   xor
ld
add
                                                               hl, de
loc_0_3098
        10 FA
                                                   dinz
309E C9
309E
309E
                          ret
; End of function flip_2_tiles
309F
309F
309F
309F
                                   SUBROUTINE
309F
309F E5
309F E5
309F
30A0 21 C0 60
30A3 3A B0 60
30A6 6F
30A7 CB 7E
30A9 CA BB 30
                          queue_fg_vector_fn:
                                                                                                                             ; CODE XREF: check_coin_inserted+3B1p
                                                                                                                             ; 0000:01F7†p ...
                                                               hl, #fg vector fn params
                                                   ld
                                                               a, (fg_fn_queue_tail)
1, a
7, (h1)
                                                   14
                                                                                                                            ; point to end of queue
; empty entry?
; no, exit
; vector number
                                                   ld
                                                   bit
jp
ld
inc
ld
                                                                    loc_0_30BB
30A9 CA
30AC 72
30AD 2C
30AE 73
30AF 2C
30BO 7D
                                                               (hl), d
                                                               (hl), e
                                                                                                                             ; msg number
                                                   inc
                                                               a, 1
#0xC0; 'L'
NC, loc_0_30B8
a, #0xC0; 'L'
30B0 7D
30B1 FE C0
30B3 D2 B8 30
30B6 3E C0
                                                   ld
cp
                                                                                                                             ; new tail
                                                                                                                             ; wrap?
; no, skip
                                                   jp
ld
30B8
30B8
30B8 32 B0 60
                                                                                                                            ; CODE XREF: queue_fg_vector_fn+14<sup>†</sup>j
; store tail
                          loc_0_30B8:
                                                               (fg fn queue tail), a
                                                   ld
30BB
30BB
30BB E1
                                                                                                                             ; CODE XREF: queue_fg_vector_fn+A\uparrow j
                          loc_0_30BB:
                                                   pop
30BC C9
30BC
                                                   ret
                          ; End of function queue_fg_vector_fn
30BC
30BD
                                                SUBROUTINE ...
30BD
30BD
30BD
30BD
                                                                                                                               CODE XREF: 0000:12A31p
                          hide_object_sprites:
30BD 21 50 69
                                                                                                                               0000:1615†p
sprite #20 (kongs legs)
2 sprites to hide
30BD 21 50 69
30BD 30C0 06 02
30C2 CD E4 30
                                                   14
                                                              hl, #soft_sprite_ram+0x50 b, #2
                                                   ld
                                                              b, #2
zero_sprite_y_xB
1, #0x80; 'C'
b, #0xA
zero_sprite_y_xB
                                                   call
30C5 2E 80
30C7 06 0A
30C9 CD E4 30
30CC 2E B8
                                                   ld
ld
call
ld
                                                                                                                             ; sprite #32 (springs)
; 10 sprites to hide
                                                                                                                             ; sprite #46 (cement pies & ???); 11 sprites to hide
30CC 2E B8
30CE 06 0B
                                                               1, #0xB8;
b, #0xB
                                                   ld
                                                              zero_sprite_y_xB
hl, #soft_sprite_ram+0x10C
b, #5
30D0 CD E4 30
30D3 21 0C 6A
30D6 06 05
                                                   call
ld
                                                                                                                             ; sprite #67 (hat, purse, umbrella & hammersx2)
; 5 sprites to hide
                                                   1d
                          jp zero_sprite_y_xB
; End of function hide_object_sprites
30D8 C3 E4 30
30D8
30D8
30DB
30DB
30DB
30DB
                                                 SUBROUTINE
30Db
30DB 21 4C 69
30DE 36 00
30E0 2E 58
06 06
                          sub_0_30DB:
                                                                                                                             ; CODE XREF: 0000:12DF p
                                                              h1, #soft_sprite_ram+0x4C
(h1), #0
1, #0x58; 'X'
                                                                                                                               sprite #19 (Y)
hide
                                                   ld
                                                   ld
ld
30E0 2E 58
30E2 06 06
30E2
30E4
30E4
30E4
30E4
30E4
30E4
30E4
7D
30E5
30E5
                          ld b, #; End of function sub_0_30DB
                                                                    #6
                                               SUBROUTINE
                                                                                                                               CODE XREF: hide_object_sprites+5|p
                          zero_sprite_y_xB:
                                                                                                                             ; hide_object_sprites+C\p ...
                                                               a, 1
                                                                                                                             ; CODE XREF: zero_sprite_y_xB+6|j
                          loc 0 30E5:
30E5
30E5 36 00
30E7 C6 04
30E9 6F
30EA 10 F9
                                                               (hl),
a, #4
l, a
                                                   14
                                                                        #0
                                                   add
                                                   ld
30EA 10
30EC C9
30EC
30EC
                                                   dinz
                                                               loc_0_30E5
                          ; End of function zero_sprite_y_xB
30EC
30ED
30ED
30ED
30ED
30ED CD FA 30
30FO CD 3C 31
30F3 CD B1 31
30F6 CD F3 34
30F9 C9
30F9 C9
                                                SUBROUTINE
                          sub_0_30ED:
                                                                                                                             ; CODE XREF: 0000:198C1p
                                                   call
                                                               sub_0_30FA
                                                                                                                             ; spawn fireballs?
; process fireball AI?
                                                   call
                                                               sub_0_313C
sub_0_31B1
                                                   call
                                                   call
                                                               sub_0_34F3
                                                                                                                                add fireballs to sprite display
                          ; End of function sub_0_30ED
30F9
30FA
30FA
30FA
                                                 SUBROUTINE
```

; CODE XREF: sub\_0\_30ED1p

30FA 30FA 30FA

30FD FE 06 30FF 38 02

3A 80 63

sub\_0\_30FA:

ld

cp jr a, (unk\_0\_6380)

C, loc\_0\_3103

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3101 3E 05
                                                                         ld
                                                                                          a, #5
3103
3103
3103 EF
3103
                                                                                                                                                                                   ; CODE XREF: sub_0_30FA+5<sup>†</sup>j; go!
                                     loc_0_3103:
                                                                                          0x28
3103
3104 10 31
3106 10 31
3108 1B 31
310A 26 31
310C 26 31
310E 31 31
3110
                                                                         .dw loc_0_3110
.dw loc_0_3110
.dw loc_0_311B
.dw loc_0_3126
                                                                                                                                                                                    ; Jump table
                                                                         .dw loc_0_3126
.dw loc_0_3131
loc_0_3110:
                                                                                                                                                                                   ; DATA XREF: sub_0_30FA+A<sup>†</sup>o; sub_0_30FA+C<sup>†</sup>o
                                                                                          a, (gen_purpose_timer)
#1
                                                                         ld
                                                                         and
                                                                         cp
ret
                                                                                          #1
Z
                                                                         inc
                                                                                           sp
                                                                                                                                                                                  ; DATA XREF: sub_0_30FA+E10
                                     loc_0_311B:
                                                                         ld
and
                                                                                                 (gen_purpose_timer)
                                                                         cp
ret
inc
                                                                                           #5
                                                                                           sp
                                                                                           sp
3124 33
3125 C9
3126
3126
3126
3126
3128 3A 1A 60
3129 E6 03
312B FE 03
312D F8
312E 33
312F 33
3131
3131
3131
3131
3131
3131 3A 1A 60
3134 E6 07
3136 FE 07
3138 F8
3139 33
313A 33
313B C9
313B
                                                                         ret
                                                                                                                                                                                   ; DATA XREF: sub_0_30FA+10\dagger o ; sub_0_30FA+12\dagger o
                                     loc_0_3126:
                                                                         ld
and
                                                                                                  (gen_purpose_timer)
                                                                         ср
                                                                                           Μ
                                                                         ret
                                                                         ret
                                      loc_0_3131:
                                                                                                                                                                                   ; DATA XREF: sub_0_30FA+14\u00e10
                                                                                          a, (gen_purpose_timer)
#7
#7
M
                                                                         ld
                                                                         and
                                                                         cp
ret
                                                                         inc
                                                                                           sp
                                                                         ret
313B C9
313B 313B
313C 313C 313C 313C 313C 313C 3140 AF 3141 32 A1 63 3144 66 05 3146 11 20 00 3149 3149 DD 7E 00 314E CA 7C 31 3151 3A A1 63 3154 3C 3155 32 A1 63 3156 3D 77 08 3150 3A 17 62 3160 FE 01 3162 C2 6A 31 3160 FE 01 3162 C2 6A 31
                                      ; End of function sub_0_30FA
                                                                       SUBROUTINE ...
                                     sub_0_313C:
                                                                                                                                                                                   ; CODE XREF: sub_0_30ED+3<sup>p</sup>; fireball character data
                                                                                           ix, #unk_0_6400
                                                                         ld
                                                                         xor
ld
                                                                                           a
(unk_0_63A1), a
                                                                                          b, #5
de, #0x20; ''
                                     loc_0_3149:
                                                                                                                                                                                   ; CODE XREF: sub_0_313C+30|j
                                                                                          a, 0(ix)
#0
Z, loc_0_317C
                                                                         ср
                                                                         jp
ld
inc
ld
                                                                                           a, (unk_0_63A1)
                                                                                           (unk_0_63A1), a
                                                                         ld
ld
ld
                                                                                           a, #1
8(ix), a
                                                                                          a, (unk_0_6217)
                                                                         cp
jp
ld
ld
3162 C2 6A 31
3165 3E 00
3167 DD 77 08
                                                                                          NZ, loc_0_316A
a, #0
                                                                                           a, #0
8(ix), a
3167 DD 77 08
316A
316A DD 19
316C 10 DB
316C 21 A0 63
3173 3A A1 63
3176 FE 00
3179 33
3178 C0
3179 33
3178 33
3178 33
3178 C0
                                                                                                                                                                                   ; CODE XREF: sub_0_313C+26<sup>†</sup>j; sub_0_313C+45<sup>†</sup>j ...
                                     loc_0_316A:
                                                                                          ix, de
loc_0_3149
hl, #unk_0_63A0
(hl), #0
                                                                         add
                                                                         djnz
ld
ld
                                                                                          a, (unk_0_63A1)
#0
                                                                         ld
                                                                         cp
ret
inc
                                                                                           sp
317A 33
317B C9
317C
317C
317C
317C 3A A1 63
317F FE 05
3181 CA 6A 31
3184 3A 27 62
3187 FE 02
3189 C2 95 31
318C 3A A1 63
318F 4F
3190 3A 80 63
3193 B9
3194 C8
3195 3195
3195 3195
                                                                                           sp
                                                                         ret
                                                                                                                                                                                  ; CODE XREF: sub_0_313C+12 j
                                     loc 0 317C:
                                                                         ld
                                                                                                (unk_0_63A1)
                                                                         cp
                                                                                           Z, loc_0_316A
                                                                         jp
ld
                                                                                                (level_type)
                                                                         cp
jp
ld
                                                                                                                                                                                    ; cement level?
                                                                                           NZ, loc_0_3195
a, (unk_0_63A1)
                                                                                                                                                                                   ; no, continue
; cement level timers
```

a, (unk\_0\_63A1) c, a a, (unk\_0\_6380)

a, (unk\_0\_63A0)

NZ, loc\_0\_316A 0(ix), a 0x18(ix), a

(unk\_0\_63A0), a

; CODE XREF: sub\_0\_313C+4D<sup>†</sup>j; spawn a fireball

c Z

ld ld cp

ret

ld

cp jp ld ld

loc\_0\_3195:

3195 3195 3A AO 63 3198 FE 01 319A C2 6A 31 319D DD 77 00 31AO DD 77 18

31A3 AF 31A4 32 A0 63

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
31A7 3A A1 63
                                                              ld
                                                                             a, (unk_0_63A1)
31AA 3C
31AB 32 A1 63
31AE C3 6A 31
31AE
                                                              inc
                                \begin{array}{ccc} & & & & & & & \\ & & 1d & & (unk\_0\_63A1) \,, \; a \\ jp & loc\_0\_316A \\ ; \; End \; of \; function \; sub\_0\_313C \end{array}
31AE
31B1
31B1
31B1
                                                             SUBROUTINE
31B1
31B1
31B1 CD DD 31
31B4 AF
31B5 32 A2 63
31B8 21 E0 63
31BB 22 C8 63
31BE
                                sub_0_31B1:
                                                                                                                                                       ; CODE XREF: sub_0_30ED+6\p
                                                              call
                                                                             sub_0_31DD
                                                              xor
                                                                             (unk_0_63A2), a
hl, #unk_0_63E0
(unk_0_63C8), hl
                                                              ld
ld
                                                              ld
31BE
31BE
31BE 2A C8 63
31C1 01 20 00
31C4 09
31C5 22 C8 63
31C8 7E
31C9 A7
31CA CA D0 31
                                loc_0_31BE:
                                                                                                                                                       ; CODE XREF: sub_0_31B1+28 | j
                                                             ld
ld
                                                                            hl, (unk_0_63C8)
bc, #0x20; ''
hl, bc
                                                              add
                                                              ld
ld
                                                                             (unk_0_63C8), hl
a, (hl)
                                                              and
                                                                             a
Z, loc_0_31D0
                                                              jp
call
31CA CA DO 31
31CD CD 02 32
31D0
31D0 3A A2 63
31D3 3C
31D4 32 A2 63
31D7 FE 05
                                                                             sub_0_3202
                               loc_0_31D0:
                                                                                                                                                      ; CODE XREF: sub 0 31B1+19 j
                                                              ld
                                                                             a, (unk_0_63A2)
                                                              inc
ld
                                                                             a
(unk_0_63A2), a
                                                              ср
31D9 C2 BE 31
31DC C9
31DC
31DC
                                                              jp
ret
                                                                            NZ, loc_0_31BE
                                ; End of function sub_0_31B1
31DD
31DD
31DD
                                                          SUBROUTINE
sub_0_31DD:
                                                                                                                                                       ; CODE XREF: sub_0_31B1\daggerp
                                                                            a, (unk_0_6380)
#3
                                                              ср
                                                              ret
                                                             call
                                                                             sub_0_31F6
                                                              ret
ld
                                                                             hl, #unk_0_6439
                                                                            h1, #umk_0_6439
a, #2
(h1), a
h1, #umk_0_6479
a, #2
(h1), a
                                                              ld
ld
                                                              ld
                                                              ld
ld
                                                             ret
                                ; End of function sub\_0\_31DD
                                                            SUBROUTINE
31F6
31F6
31F6
31F6
31F6 3A 18 60
31F9 E6 03
31FB FE 01
31FD C0
31FE 3A 1A 60
3201 C9
3201
3201
3201
3201
3202
                                                                                                                                                       ; CODE XREF: sub_0_31DD+61p
                                sub_0_31F6:
                                                              ld
                                                                                  (random no)
                                                              and
                                                              cp
ret
                                                              ld
                                                                             a, (gen_purpose_timer)
                                ret; End of function sub_0_31F6
3202
3202
3202
3202
                                                           SUBROUTINE
32002

32002 DD 2A C8 63

32006 DD 7E 18

32009 FE 01

32008 CA 7A 32

3200E DD 7E 0D

3211 FE 04

3213 F2 30 32

3216 DD 7E 19

3219 FE 02

321B CA 7E 32

321E CD 0F 33

3221 CD 0F 33

3221 A 18 60

3224 E6 03

3226 C2 33 32

3229
                                sub_0_3202:
                                                                                                                                                       ; CODE XREF: sub_0_31B1+1C1p
                                                             ld
ld
                                                                            ix, (unk_0_63C8)
a, 0x18(ix)
#1
                                                             cp
jp
ld
cp
jp
ld
cp
jp
call
ld
and
                                                                            Z, loc_0_327A
a, 0xD(ix)
#4
                                                                            P, loc_0_3230
                                                                                  0x19(ix)
                                                                            #2
Z, loc_0_327E
sub_0_330F
                                                                             a, (random_no)
                                                                             NZ, loc 0 3233
                                                              jр
3229
3229 DD 7E 0D
322C A7
                                loc_0_3229:
                                                                                                                                                       ; CODE XREF: sub_0_3202+7F|j
                                                                             a, 0xD(ix)
                                                              ld
                                                              and
322C A7
322D CA 57 32
3230
3230
3230 CD 3D 33
                                                              jp
                                                                             Z, loc_0_3257
                               loc_0_3230:
                                                                                                                                                       ; CODE XREF: sub_0_3202+11<sup>†</sup> j
3230 CD 3D 33
3233 DD 7E 0
3236 FE 04
3238 F2 91 32
3238 DD AD 33
3238 CD AD 33
3238 CD AD 33
3238 CD AD 32
3241 FE 01
3243 CD 97 32
3246 DD 2A CB
3244 DD 7E 0E
3245 DA 8C 32
3255 FE F0
3255 FE F0
                                                             call
                                                                             sub 0 333D
                                                                            a, 0xD(ix)
#4
                                loc_0_3233:
                                                                                                                                                       ; CODE XREF: sub_0_3202+24 j
                                                              ld
                                                             cp
jp
call
                                                                             #4
P, loc_0_3291
sub_0_33AD
                                                                             sub 0 298C
                                                              call
                                                             cp
jp
ld
ld
                                                                             Z, loc_0_3297
ix, (unk_0_63C8)
a, 0xE(ix)
```

a, 0x #0x10

loc\_0\_328C

; CODE XREF: sub\_0\_3202+2B<sup>†</sup> j
; sub\_0\_3202+87<sup>†</sup> j ...

NC, loc\_0\_3284

a, 0x13(ix) #0

cp jp

ср

jp

1d

loc\_0\_3257:

3254 D2 84 32

3257 3257 3257 DD 7E 13

325A FE 00

```
325C C2 B9 32
325F 3E 11
                                                                     NZ, loc_0_32B9
a, #0x11
                                                        jp
ld
 3261
3261 DD 77 13
                             loc_0_3261:
                                                                                                                                        ; CODE XREF: sub_0_3202+B8|j
                                                                     0x13(ix), a
3261 DD 77 13
3264 16 00
3266 5F
3267 21 7A 3A
326A 19
326B 7E
                                                        ld
                                                                     d, #0
                                                                     d, #0
e, a
h1, #fireball_bouncing_data
h1, de
a, (h1)
b, 0xE(ix)
3(ix), b
c, 0xF(ix)
                                                        ld
ld
add
ld
ld
ld
ld
 326C DD 46 0E
326F DD 70 03
3272 DD 4E 0F
3272 DD 4E OF
3275 81
3276 DD 77 05
3279 C9
327A
327A
327A
327A CD BD 32
                                                        add
                                                                     a, c
5(ix), a
                                                        ld
                                                        ret
                             loc_0_327A:
                                                                                                                                        ; CODE XREF: sub_0_3202+91j
                                                        call
                                                                     sub_0_32BD
327A CD BD 32
327D C9
327E
327E
327E
327E CD D6 32
                                                        ret
                                                                                                                                         ; CODE XREF: sub_0_3202+19<sup>†</sup> j
                             loc 0 327E:
                                                                     sub_0_32D6
loc_0_3229
                                                        call
 3281 C3 29 32
3284
                                                        jp
 3284
3284
                                                                                                                                         ; CODE XREF: sub_0_3202+52<sup>†</sup> j
                             loc_0_3284:
 3284 3E 02
3286
3286
                                                        ld
                                                                     a, #2
                                                                                                                                         ; CODE XREF: sub_0_3202+8C|j
                             loc_0_3286:
 3286 DD 77 OD
3289 C3 57 32
                                                                     0xD(ix), a
1oc_0_3257
                                                        1d
                                                        jр
 328C
328C
 328C
                             loc_0_328C:
                                                                                                                                         ; CODE XREF: sub_0_3202+4D\uparrow j
 328C 3E 01
328E C3 86 32
                                                                     a, #1
loc_0_3286
                                                        jр
 3291
3291
3291
3291
                             loc_0_3291:
                                                                                                                                         ; CODE XREF: sub_0_3202+36 j
3291 CD E7 33
3294 C3 57 32
                                                        call
                                                                     sub_0_33E7
loc_0_3257
                             loc 0 3297:
                                                                                                                                         ; CODE XREF: sub 0 3202+411 j
 3297 DD 2A C8 63
3298 DD 7E 0D
3298 FE 01
32A0 C2 B1 32
32A3 3E 02
                                                                     ix, (unk_0_63C8)
a, 0xD(ix)
#1
                                                        14
                                                        ld
                                                        ср
                                                        jp
ld
dec
                                                                     NZ, loc_0_32B1
 32A3 3E 02
32A5 DD 35 0E
32A8
                                                                     0xE(ix)
 32A8
32A8 DD 77 OD
32AB CD C3 33
32AE C3 57 32
                             loc 0 32A8:
                                                                                                                                        ; CODE XREF: sub 0 3202+B4-j
                                                                     0xD(ix), a
sub_0_33C3
loc_0_3257
                                                        ld
                                                        call
                                                        jр
 32B1
32B1
32B1
32B1 3E 01
32B3 DD 34 0E
32B6 C3 A8 32
32B9
32P0
                             loc_0_32B1:
                                                                                                                                         ; CODE XREF: sub_0_3202+9E<sup>†</sup>j
                                                                     a, #1
0xE(ix)
                                                        ld
                                                        inc
                                                                      loc_0_32A8
 32B9
32B9
32B9 3D
32BA C3 61 32
                             loc_0_32B9:
                                                                                                                                         ; CODE XREF: sub_0_3202+5A j
                                                                     a
loc_0_3261
                                                        jр
                             ; End of function sub_0_3202
 32BA
 32BA
32BD
32BD
                                                      SUBROUTINE
 32BD
32BD
32BD
32BD 3A 27 62 32BD 3A 27 62 32CC CA CE 32 32CA CD B9 34 32CD CD 32CE 32CE 32CE CD 2C 34 32DD C9 34 32DD C9 34 32DD C9
                             sub_0_32BD:
                                                                                                                                        ; CODE XREF: sub_0_3202+781p
                                                        ld
                                                                     a. (level type)
                                                        cp
jp
                                                                     Z, loc_0_32CE
#2
                                                        ср
                                                        jp
call
ret
                                                                     Z. loc 0 32D2
                                                                     sub_0_34B9
                             loc_0_32CE:
                                                                                                                                         ; CODE XREF: sub_0_32BD+5<sup>†</sup>j
                                                        call
                                                                     sub_0_342C
 32D1 C9
32D2
32D2
32D2
32D2
                                                        ret
                                                                                                                                         ; CODE XREF: sub_0_32BD+A^jj
                             loc_0_32D2:
 32D2 CD 78 34
                                                        call
                                                                     sub_0_3478
 32D5 C9
32D5
32D5
32D5
32D6
                             ret; End of function sub_0_32BD
 32D6
32D6
32D6
                                                      SUBROUTINE
32D6
32D6 DD 7E 1C
32D9 FE 00
32DB C2 FD 32
32DE DD 7E 1D
32E1 FE 01
32E3 C2 OB 33
32E6 DD 36 1D 00
32EA 3A 05 62
32ED DD 46 0F
32F1 DA 03 33
32F0 DD 36 1C FF
32F8
                             sub 0 32D6:
                                                                                                                                        ; CODE XREF: sub 0 3202+7C1p
                                                                     a, 0x1C(ix)
#0
                                                        1d
                                                        ср
                                                                     NZ, loc_0_32FD
                                                        jp
ld
                                                                     a, 0x1D(ix)
#1
                                                        cp
jp
ld
ld
                                                                     NZ, loc_0_330B
                                                                     0x1D(ix), #0
a, (mario x)
                                                        ld
sub
                                                                     C, loc_0_3303
0x1C(ix), #0xFF
                                                        jp
ld
                                                                                                                                        ; CODE XREF: sub_0_32D6+2A|j
                            loc_0_32F8:
 32F8 DD 36 0D 00
                                                        1d
                                                                     0xD(ix), #0
                                                        ret
```

SUBROUTINE

ld

rst ld cp ret

sub\_0\_33A1:

33AA 33 33AB 33

a, #7 0x30 a, 0xF(ix) #0x59; 'Y'

sp sp

; CODE XREF: sub\_0\_333D+D^p

; return if level bit not set

```
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```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
33AC C9
33AC
                      ret; End of function sub_0_33A1
33AC
33AC
33AD
33AD
33AD
33AD
33AD
33AD DD 7E 0D
33BO EF 01
                                          SUBROUTINE
                       sub_0_33AD:
                                                                                                            ; CODE XREF: sub_0_3202+39\p
                                                       a, 0xD(ix)
                                            ld
33AD DD 7E 0D
33B0 FE 01
33B2 CA D9 33
33B5 DD 7E 07
33B8 E6 7F
33BA DD 77 07
33BD DD 35 0E
33C0
33C0
32C0
                                            cp
jp
ld
                                                       #1
                                                       Z, loc_0_33D9
                                                      a, roc_0_33
a, 7(ix)
#0x7F; ''
7(ix), a
                                                                                                            ; reset hflip
                                            and
                                            1d
                                                                                                            ; sprite tile #
                                                                                                            ; CODE XREF: 0000:33E4|j
                      loc 0 33C0:
                       call sub_0_3409; End of function sub_0_33AD
33C0 CD 09 34
33C0
33C0
SUBROUTINE
                       sub_0_33C3:
                                                                                                           ; CODE XREF: sub_0_3202+A91p
                                                      a, (level_type)
#1
                                            ld
cp
                                            ret
                                                       NZ
                                                      h, 0xE(ix)
1, 0xF(ix)
b, 0xD(ix)
                                            ld
                                            ld
ld
                                            call
                                                       adjust_height_on_girders
                                            1d
                                                       0xF(ix), 1
                                            ret
                       ; End of function sub_0_33C3
loc_0_33D9:
                                                                                                              CODE XREF: sub_0_33AD+5 i
                                                       a, 7(ix)
#0x80; 'Ç'
7(ix), a
                                                                                                            ; sprite tile # ; set hflip
                                            ld
                                            or
ld
                                                       0xE(ix)
                                            inc
                                            jp
                                                       loc_0_33C0
                                            SUBROUTINE
                       sub_0_33E7:
                                                                                                            ; CODE XREF: sub_0_3202+8F<sup>†</sup>p
                                            call
ld
                                                       sub_0_3409
                                                       a, 0xD(ix)
#8
                                            cp
jp
ld
                                                      NZ, loc_0_3405
a, 0x14(ix)
                                            and
jp
ld
                                                       NZ, loc_0_3401
                                                      0x14(ix), #2
0xF(ix)
33FD DD 35 OF
3400 C9
3401
3401
3401
3401 DD 35 14
3404 C9
3405
3405
3405
3405 DD 34 OF
3408 C9
3408
                                            dec
                                            ret
                       loc 0 3401:
                                                                                                           ; CODE XREF: sub 0 33E7+F1 j
                                            dec
                                                      0x14(ix)
                       loc_0_3405:
                                                                                                            ; CODE XREF: sub_0_33E7+8 j
                                            inc
ret
                                                       0xF(ix)
; End of function sub_0_33E7
                                          SUBROUTINE
                      sub_0_3409:
                                                                                                            ; CODE XREF: sub_0_33AD+13<sup>p</sup>
; sub_0_33E7<sup>p</sup>
                                            ld
and
jp
ld
                                                      a, 0x15(ix)
                                                      a
NZ, loc_0_3428
0x15(ix), #2
                                                       7(ix)
a, 7(ix)
#0xF
                                                                                                            ; inc fireball animation
                                            ld
                                            and
                                            cp
ret
ld
                                                       #0xF
                                                                                                            ; last animation frame?
                                                      NZ
a, 7(ix)
                                                                                                            ; reset animation frame
                                                       #2
7(ix), a
                                            xor
ld
3428
3428 DD 35 15
342B C9
342B
                      loc_0_3428:
                                                                                                           ; CODE XREF: sub 0 3409+41 j
                                            dec
                                                       0x15(ix)
                                            ret
; End of function sub 0 3409
                                           SUBROUTINE
                                                                                                            ; CODE XREF: sub_0_32BD+111p
                       sub_0_342C:
                                            ld
                                                       1, 0x1A(ix)
                                            ld
                                                      h, 0x1B(ix)
                                            xor
ld
                                                       a
bc, #0
                                                      hl, bc
NZ, loc_0_3442
hl, #fireball_bounce_data
3(ix), #0x26; '&'
                                            ado
```

jp ld ld

; CODE XREF: sub\_0\_342C+C1j

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

loc\_0\_3442:

loc 0 3445:

3442 3442 3442 DD 34 03 3445

3445

3445 7E

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
                                               ld
                                                              (hl)
                                               cp
jp
ld
inc
3446 FE AA
                                                           #0xAA;
3446 FE AA
3448 CA 56 34
344B DD 77 05
344E 23
344F DD 75 1A
3452 DD 74 1B
3455 C9
3456
                                                          Z, loc_0_3456
5(ix), a
                                                          hl
0x1A(ix), l
0x1B(ix), h
                                               1d
                                               14
loc_0_3456:
                                                                                                                  ; CODE XREF: sub_0_342C+1Cfj
                                                          a

0x13(ix), a

0x18(ix), a

0xD(ix), a

0x1C(ix), a

a, 3(ix)

0xE(ix), a

a, 5(ix)

0xF(ix), a

0x1A(ix), #0

0x1B(ix), #0
                                               ld
                                               ld
ld
ld
ld
                                               ld
ld
ld
                                               ld
                                               ld
                                                          0x1B(ix), #0
                                               ret
                        ; End of function sub_0_342C
                                             SUBROUTINE
                        sub_0_3478:
                                                                                                                   ; CODE XREF: sub_0_32BD+15\p
                                                          1, 0x1A(ix)
h, 0x1B(ix)
                                               ld
ld
                                               xor
ld
adc
                                                          a
bc, #0
                                                          hl, bc
                                               jp
ld
ld
bit
                                                          NZ, loc 0 349A
                                                          hl, #cement_fireball_data
a, (mario_y)
                                               jp
ld
ld
                                                          Z, loc_0_34A8
                                                          0xD(ix), #1
3(ix), #0x7E; '~'
                                                                                                                   ; CODE XREF: sub_0_3478+C^jj
                        loc_0_349A:
                                                                                                                    ; sub_0_3478+38|j
                                                          a, 0xD(ix)
#1
                                               ld
                                               cp
jp
inc
                                                          NZ, loc_0_34B3
                                                           3(ix)
loc_0_3445
34A5 C3 45 34
34A8
34A8
34A8 DD 36 0D 02
34AC DD 36 03 80
34B0 C3 9A 34
34B3
34B3
                                               jр
                                                                                                                   ; CODE XREF: sub_0_3478+17<sup>†</sup> j
                        loc_0_34A8:
                                                          0xD(ix), #2
3(ix), #0x80; 'Ç'
                                               ld
                                                          3(ix), #0x8
loc_0_349A
                                               1d
                                               jp
34B3
34B3 DD 35 03
34B6 C3 45 34
                        loc_0_34B3:
                                                                                                                   ; CODE XREF: sub_0_3478+27 j
                        dec 3(ix)
jp loc_0_3445
; End of function sub_0_3478
34B6
34B6
34B9
34B9
34B9
34B9
34B9
34B9
                                             SUBROUTINE
                        sub_0_34B9:
                                                                                                                   ; CODE XREF: sub_0_32BD+D^p
                                                          a, (level_type)
ld
                                               cp
ret
ld
bit
                                                          a, (mario_y)
7, a
                                                          NZ. loc 0 34ED
                                                          hl, #rivet_fireball_data
loc 0 34CA:
                                                                                                                   ; CODE XREF: sub 0 34B9+37-i
                                                          ~, #U
a, (random_no+1)
#6
                                               1d
                                               ld
and
ld
                                                          h, bc
a, (hl)
3(ix), a
0xE(ix), a
                                               add
ld
ld
                                               ld
                                               inc
                                                          hl
                                                          hl
a, (hl)
5(ix), a
0xF(ix), a
                                               ld
ld
                                               xor
ld
                                                          a
0xD(ix), a
                                               ld
                                                          0x18(ix), a
                                                          0x1C(ix), a
                                               1d
34ED
34ED 21 D4 3A
34F0 C3 CA 34
                        loc_0_34ED:
                                                                                                                   ; CODE XREF: sub_0_34B9+Bfj
                                               ld
                                                          hl, #rivet_fireball_start_points
                                                           loc_0_34CA
                                               jр
                        ; End of function sub 0 34B9
34F0
                                              SUBROUTINE
                        sub_0_34F3:
                                                                                                                      CODE XREF: sub_0_30ED+9↑p
                                                                                                                   ; fireball character data
; fireballs in sprite ram
; 5 fireballs (max)
                                                          hl, #unk 0 6400
                                               ld
                                                          de, #soft_sprite_ram+0xD0
b, #5
                                               ld
```

; CODE XREF: sub 0 34F3+28 -

loc\_0\_34FB:

ld and

jр

a, (hl) a Z, loc\_0\_351E

1

34FB

34FB 7E 34FC A7 34FC CA 1E 35 3500 2C 3501 2C

366B 366D 5D 37 366F 73 37 3671 8B 37

3673 00 3675 22 61

30 38 47

.dw aPUSH

.dw aNAME REGISTRATION

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

.dw high\_score\_tbl\_ram

.dw aNAME .dw aDASHDASHDASH

3890 00 35 08 3C

3894 53 32 08 40 3898 63 33 08 40 389C 00 70 08 48 38A0 53 36 08 50 38A4 63 37 08 50

.db 0, 0x35, 8, 0x30

.db 0, 0x35, 8, 0x30 .db 0x53, 0x32, 8, 0x40 .db 0x63, 0x33, 8, 0x40 .db 0, 0x70, 8, 0x48 .db 0x53, 0x36, 8, 0x50 .db 0x63, 0x37, 8, 0x50

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
   38A8 6B 31 08 41
                                                                                                                                                                              .db 0x6B, 0x31, 8, 0x41
  38AC 00 70 08 48 .db 0, 0x70, 8, 0x48

38BO 6A 14 0A 48 .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 FE+ .db 0xFE, 0xFE, 0xFE, 0xFE, 0xFF, 0x
   38E4 FF FF FF FF+ .db 0, 1, 1, 1, 0x/F
38CB 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+ ; DATA XREF: display_lUP+5C\u00f10
38CB 00 01 00 01+ ; 0000:0B86\u00f10
                                                                              38CB 00 01 00 01+
38CB 01 01 01 01+
38DC 04 7F F0 10+d:
38DC F0 02 DF F2+
38DC F0 02 DF F2+
38DC F8 10 F8 AA+
38DC 04 DF D0 90+
38DC D0 02 DF DC+
                                                                                                                                                                           .db 2, 0x6F, 0xF8, 0x10, 0xF8, 0xAA, 4, 0xDF, 0xD0, 0x90
.db 0xD0, 2, 0xDF, 0xDC, 0x20, 0xD1, 0xAA, 0xFF, 0xFF
.db 0xFF, 0xFF, 0xFF, 4, 0xDF, 0xA8, 0x20, 0xA8, 4, 0x5F
.db 0xB0, 0x20, 0xB0, 2, 0xDF, 0xB0, 0x20, 0xBB, 0xAA
38DC D0 02 DF DC+ .db 0x80, 0x20, 0x80, 2, 0xDF, 0xB0, 0x20, 0xBB, 0xAA
38DC 20 D1 AA FF+ .db 4, 0xDF, 0x88, 0x30, 0x88, 4, 0xDF, 0x90, 0xB0, 0x90
38DC FF FF FF FF+ .db 2, 0xDF, 0x9A, 0x20, 0x8F, 0xAA, 4, 0xBF, 0x68, 0x20
38DC AB D4 AB 20+ .db 0x68, 4, 0x3F, 0x70, 0x20, 0x70, 2, 0xDF, 0x6E, 0x20
38DC AB 04 5F B0+ .db 0x79, 0xAA
392C 02 DF 58 A0+draw_data_bend_girders_1: db 2, 0xDF, 0x58, 0xA0, 0x55, 0xAA ; DATA XREF: 0000:0B48†0
3932 00 70 08 44+dk_throw_barrel_spr:.db 0, 0x70, 8, 0x44, 0x2B, 0xAC, 8, 0x4C, 0x3B, 0xAE
3932 2B AC 08 4C+ ; DATA XREF: 0000:1671†0
3932 3B AE 08 4C+ ; Sub_0_2C8F+95†0
3932 3B AE 08 4C+

3932 3B AF 08 3C+

.db 8,0x4C, 0x3B, 0xAF, 8, 0x3C, 0x4B, 0xB0, 7, 0x3C

3932 4B BO 07 3C+

.db 0x4B, 0xAD, 8, 0x4C, 0, 0x70, 8, 0x44, 0, 0x70, 8

3932 4B AD 08 4C+

.db 0x44, 0, 0x70, 8, 0x44, 0, 0x70, 0xA, 0x44, 0x47, 0x27

3932 00 70 08 44+

.db 8, 0x4C, 0x2F, 0xA7, 8, 0x4C, 0x3B, 0x25, 8, 0x4C

3932 00 70 08 44+

.db 0, 0x70, 8, 0x44, 0x3B, 0x23, 7, 0x3C, 0x4B, 0x2A

3932 00 70 08 44+

.db 0, 0x70, 8, 0x44, 0x3B, 0x23, 7, 0x3C, 0x4B, 0x2A

3932 00 70 08 44+

.db 0x2B, 0xAB, 8, 0x4C, 0x2B, 0xAA, 8, 0x3C

3932 07 07 08 4C+

.db 0x2B, 0xAB, 8, 0x4C, 0x2B, 0xAA, 8, 0x4C, 0x3B, 0x2B, 0xAC, 0x2B, 0xAA, 8, 0x3C

3932 47 27 08 4C+

.db 0x44, 0x4B, 0x2C, 8, 0x4C, 0x3B, 0x2E, 8, 0x4C, 0x3B

3932 3B 25 08 4C+

.db 0x4C, 0x3B, 0x3C, 0x2B, 0x3O, 7, 0x3C, 0x2B, 0x2D, 8

3932 3B 25 08 4C+

.db 0x4C, 0, 0x70, 8, 0x44, 0, 0x70, 8, 0x44, 0, 0x70

3932 00 70 08 44+

.db 8, 0x4C, 0, 0x70, 0xA, 0x4A, 0, 0x70

3932 00 70 08 44+

.db 0x4C, 0x3B, 0x2C, 0x2B, 0x3D, 7, 0x3C, 0x2B, 0x2D, 8

3932 3B 25 08 4C+

.db 0x4C, 0x3B, 0x4C, 0x3B, 0x4C, 0x7D, 0x4A, 0, 0x70

3932 00 70 08 44+

.db 8, 0x4C, 0, 0x70, 0xA, 0x44

39AA FF FF FF+bouncing_spring_data:.db 0xFD, 0xFD, 0xFD, 0xFE, 0xFE, 0xFE, 0xFE, 0xFF, 0xBAA XRE
                                                                                                                                                                                                                                                                                                                                                                                                                                         FE, 0xFF, 0xFF;

; DATA XREF: sub_0_2E04+98\u00e90
; sub_0_2E04+C4\u00e90
    39AA FE FE FE FF+
39AA FF 00 FF 00+
 39AA 00 01 00 01 + .db 0, 0xFF, 0, 0, 1, 0, 1, 1, 2, 2, 2, 2, 3
39C3 1E 4E BB 4C+barell_rolling_data:.db 0x1E, 0x4E, 0xBB, 0x4C, 0xD8, 0x4E,
39CC BB 4D 7F barrel_falling_data:.db 0xBB, 0x4D, 0x7F
39CF 47 27 08 50 dk_thrash_right_spr:.db 0x47, 0x27, 8, 0x50
39CF
                                                                                                                                                                                                                                                                                                                                                                                                                                               3.0x7F
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ox4F. Ox7F
DATA XRFF: sub_0_2C8F+FDfo
DATA XRFF: sub_0_2C8F+F4fo
DATA XRFF: animate_kong_and_pauline+43fo
                                                                                                                                                                                                                                                                                                                                                                                                                                                   0000:0816<sup>†</sup>o
                                                                                                                                                                           .db 0x3B, 0x25, 8, 0x50
.db 0, 0x70, 8, 0x48
.db 0x3B, 0x24, 7, 0x40
.db 0x4B, 0x28, 8, 0x40
    39D7 3B 25 08 50
39DB 00 70 08 48
   39DF 3B 24 07 40
39E3 4B 28 08 40
39E7 00 70 08 48
; DATA XREF: animate_kong_and_pauline+4Afo
                                                                                                                                                                                                                                                                                                                                                                                                                             ; DATA XREF: 0000:1870 o
  3A23 8B 27 88 60
3A27 7F 25 88 60
3A2B 00 70 88 68
3A2F 7F 24 87 70
3A33 74 29 88 6C
3A37 00 70 88 68
3A33 74 29 88 6C ..db 0x74, 0x29, 0x88, 0x6C
3A37 00 70 88 68 ..db 0, 0x70, 0x88, 0x68
3A3B 8A A9 88 6C ..db 0x8A, 0xA9, 0x88, 0x6C
3A3F 00 70 88 68 ..db 0, 0x70, 0x88, 0x68
3A43 00 70 8A 68 ..db 0, 0x70, 0x8A, 0x68
3A43 00 70 8A 68 ..db 0, 0x70, 0x8A, 0x68
3A47 05 AF F0 50+draw_data_rivet_end1:.db 5, 0xAF, 0xF0, 0x50, 0xF0, 0xAA
3A40 05 AF E8 50+draw_data_rivet_end2:.db 5, 0xAF, 0xE0, 0x50, 0xE8, 0xAA
3A53 05 AF E0 50+draw_data_rivet_end3:.db 5, 0xAF, 0xE0, 0x50, 0xE0, 0xAA
3A55 05 AF D8 50+draw_data_rivet_end5:.db 5, 0xAF, 0xE0, 0x50, 0xD8, 0xAA
3A5F 05 B7 58 48+draw_data_rivet_end5:.db 5, 0xAF, 0xB8, 0x50, 0xD8, 0xAA
3A56 01 04 01 03+level_seq_1: ..db 1, 4, 1, 3, 4, 1, 2, 3, 4, 1, 2, 1, 3, 4
3A73 01 02 01 03+level_seq_2: ..db 1, 2, 1, 3, 1, 4, 0x7F
                                                                                                                                                                                                                                                                                                                                                                                                                                        ; DATA XREF: 0000:17D9\o\tag{o}; DATA XREF: 0000:17E5\o\tag{o}; DATA XREF: 0000:17F1\o\tag{o}
                                                                                                                                                                                                                                                                                                                                                                                                                                                 DATA XREF: 0000:17FD o DATA XREF: 0000:18A5 o
                                                                                                                                                                                                                                                                                                                                                                                                                                                   DATA XREF:
                                                                                                                                                                                                                                                                                                                                                                                                                                                  DATA XREF: 0000:1799 o
   3A73 01
                                                                                                                                                                                                                                                                                                                                                                                                                                                   0000:1947†o
  3A7A FF 00 FF FF+fireball_bouncing_data:.db 0xFF, 0, 0xFF, 0xFF, 0xFE, 0xFE, 0xFE, 0xFE, 0xFE 3A7A FE FE FE FE+

3A7A FE FE FE FE+

3A7A FE FE FE FE+

.db 0xFE, 0xFE, 0xFE, 0xFE, 0xFE, 0xFE, 0xFE, 0xFF, 0
  3A7A FE FE FE FE + . .db 0xFE, 0xFE,
                                                                                                                                                                              .db 0xDD, 0xDC, 0xDC, 0xDC, 0xDC, 0xDC, 0xDC, 0xDD, 0xDD db 0xDE, 0xDF, 0xE0, 0xE1, 0xE2, 0xE3, 0xE4, 0xE5, 0xE7 db 0xE9, 0xEB, 0xED, 0xF0, 0xAA
    3A8C DD DD DE DF+
  3AAC
3AAC
                          80 7B 78 76+cement_fireball_data:.db 0x80, 0x7B, 0x7B, 0x76, 0x74, 0x73, 0x72, 0x71, 0x70
74 73 72 71+ ; DATA XREF: sub_0_3478+F\0
  3AAC 74 73 72 71+ ; DATA XREF: sub_0_3478+F↑0
3AAC 70 70 6F 6F+ .db 0x70, 0x6F, 0x6F, 0x6F, 0x70, 0x70, 0x71, 0x72, 0x73
3AAC 6F 70 70 71+ .db 0x74, 0x75, 0x76, 0x77, 0x78, 0xAA
3AC4 EE F0 DB Ad+rivet_fireball_data:.db 0xEE, 0xF0, 0xDB, 0xA0, 0xE6, 0xC8, 0xD6, 0x78, 0xEB
3AC4 E6 C8 D6 78+ ; DATA XREF: sub_0_34B9+E↑0
  3AC4 EB F0 DB A0+ .db 0xF0, 0xDB, 0xA0, 0xE6, 0xC8, 0xE6, 0xC8
3AD4 1B C8 23 A0+rivet_fireball_start_points:.db 0x1B, 0xC8, 0x23, 0xA0, 0x2B, 0x78, 0x12, 0xF0, 0x1B
3AD4 2B 78 12 F0+ ; DATA XREF: sub_0_34B9+34|o
3AD4 1B C8 23 A0+ .db 0xC8, 0x23, 0xA0, 0x12, 0xF0, 0x1B, 0xC8
  .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
   3AE4 58 A0 55 02+
3AE4 EF 6D 20 79+
   3AE4 EF 6D 20 79+
3AE4 02 DF 9A 10+
3AE4 8E 02 EF AF+
                                                                                                                                                                                                                                                                                                                                              0xCB, 0x57, 0xCB, 0x6F
0, 0xCB, 0xDB, 0xCB, 0
                                                                                                                                                                             .db
                                                                                                                                                                                                  2, 0x7F,
                                                                                                                                                                                                                                                 0xF8,
                                                                                                                                                                                                                                                                                                0xF8, 0,
   3AE4
                          20 BB 02 DF+
                                                                                                                                                                              .db
                                                                                                                                                                                                                 0xCB.
                                                                                                                                                                                                                                                 0x99
                                                                                                                                                                                                                                                                                0xCB
                                                                                                                                                                                                                                                                                                                                                                                                                                                              0xF3
                                                                                                                                                                                                               0x63, 0x99, 0x68, 0x81, 0x63, 0x54, 0x33, 0x78, 0x33, 0x90, 0x53, 0x18, 0x53, 0x54, 0x58, 0x76, 0x58, 0x92, 0x83, 0x95, 0x83, 0x95, 0x83, 0x95,
    3AE4 DC 10 D0
3AE4 FF F0 80
                                                                                                                                                                              .db
                                                                                                                                                                                                                                                                                                                                                              0x63, 0xD5, 0x63, 0xF8
0x33, 0xBA, 0x33, 0xD2
                                                                                                                                                                                                                                                                                                                                              1, 0x53, 0x92, 0x53, 0xB8
0, 0x73, 0xB6, 0x73, 0xD6
0, 0x93, 0x38, 0x93, 0x54
   3AE4
                          02
                                          7F F8
                                                                         00+
                                                                                                                                                                               .db 0,
  3AE4 F8 00 CB 57+
3AE4 CB 6F 00 CB+
3AE4 99 CB B1 00+
                                                                                                                                                                                dh
```

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

3B5D 06 8F 90 70+cement\_pie\_level\_tilemap\_data:.db 6, 0x8F, 0x90, 0x70, 0x90, 6, 0x8F, 0x98, 0x70, 0x98

.db

.db 0xAA

3AE4 CB DB CB E3+

3D5C 05

3D5D 0F 77 3D5F 02

3D60 F0 76

3D62 02

.db

.db

.dw

.dw VRAM\_start+0x30F

VRAM\_start+0x2F0

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
 3D63 CF 76
                                                     .dw VRAM_start+0x2CF
 3D65
                                                      .db
 3D66 D2 76
3D68 05
3D69 8F 76
                                                     .dw VRAM_start+0x2D2
                                                      .dw VRAM_start+0x28F
 3D6B 05
                                                     .db
 3D6C 6F 76
                                                      .dw VRAM_start+0x26F
 3D6F 4F 76
                                                     .dw VRAM_start+0x24F
 3D71 01
                                                     .db
 3D71 01
3D72 53 76
3D74 05
3D75 2F 76
                                                     .dw VRAM_start+0x253
.db 5
                                                     .dw VRAM_start+0x22F
 3D77
                                                      .db
                                                     .dw VRAM_start+0x1EF
.db 2
 3D78 EF 75
 3D7A 02
3D7B D0 75
                                                     .dw VRAM_start+0x1D0
                                                     .db 2
.dw VRAM_start+0x1B1
 3D7D 02
 3D7D 02
3D7E B1 75
3D80 05
3D81 8F 75
                                                     .db
                                                      .dw VRAM start+0x18F
 3D83 03
3D84 50 75
3D86 05
                                                      .db
                                                     .dw VRAM_start+0x150
                                                     .db
 3D87 2F 75
                                                     .dw VRAM_start+0x12F
 3D89 01
3D8A 0F 75
3D8C 01
                                                     .db 1
.dw VRAM_start+0x10F
 3D8C 01
3D8D 13 75
                                                     .db
                                                      .dw VRAM start+0x113
 3D8D 13 75
3D8F 01
3D90 EF 74
3D92 01
                                                     .db
                                                           VRAM_start+0xEF
                                                     .dw
 3D93 F1 74
                                                     .dw VRAM_start+0xF1 .db 1
 3D96 F3 74
3D98 02
                                                     .dw VRAM_start+0xF3
                                                      .db
 3D99 D1 74 ..dw VRAM_start+0xD1
3D9B 00 .db 0
3D9C 00 00 23 68+level_init_data:.db 0, 0, 0x23, 0x68, 1, 0x11, 0, 0, 0, 0x10, 0xDB,
 3D9B
3D9C
3D9C
                                                                                                                                        0x68
                                                     3D9C 01 11 00 00+
3D9C 01 10 00 00+
3D9C 01 10 DB 68+
3D9C 01 40 00 00+
3D9C 08 01 01 01+
3D9C 01 01 01 01+
 3DDC 1E 18 0B 4B+top_barrel_spr: .db 0x18, 0x8, 0x4B, 0x4B, 0x14, 0x18, 0x8, 0x4B, 3DDC 1E 18 0B 3B+ .db 0x18, 0x8, 0x3B, 0x14, 0x18, 0xB, 0x3B, 3DDC 3D 01 03 02 fireball_spr: .db 0x3D, 1, 3, 2 ;
                                                                                                                                    Ox1E
DATA XREF: 0000:0FD7<sup>o</sup>
DATA XREF: 0000:0FE210
                                                                                                                                    DATA XREF: 0000:0FE2|0
0000:101F|0 ...

DATA XREF: 0000:1131|0
DATA XREF: 0000:0FFF|0
DATA XREF: 0000:1049|0
DATA XREF: 0000:104F|0
DATA XREF: 0000:104F|0
                                                                                                                                    DATA XREF: init_hammer_sprites+9\dagger o
DATA XREF: 0000:1000\dagger o
DATA XREF: 0000:1070\dagger o
DATA XREF: 0000:113D\dagger o
                                                                                                                                    DATA XREF: 0000:102E1
                                                                                                                                    DATA XREF: 0000:105A o 0x8C, 0x50
                                                                                                                                    DATA XREF: 0000:1065†o
                                                     .db 0, 0x84, 0x73, 0xD0, 0, 0x84, 0x17, 0x50, 0, 0xD4
                      84+ db 0xE7, 0xD0, 0, 0xD4
A0+cement_obj_spr: db 0x53, 0x73, 0xA, 0xA0, 0x8B, 0x74, 0xA, 0xF0, 0xDB
                                                                                                                                  ; DATA XREF: 0000:1076 o
 3E3C DB 75 OA AO
3E48 5B 73 OA C8+e
3E48 E3 74 OA 6O+
3E48 1B 75 OA 8O
                      AO .db Ux/5, UxA, UXAU
C8+elevator_obj_spr:.db 0x5B, 0x73, 0xA, 0xC8, 0xE3, 0x74, 0xA, 0x60, 0xIB
60+ ; DATA XREF: 0000:10DE†o
3E48 E3 74 0A 60+
3E48 1B 75 0A 80
3E54 DB 73 0A C8+rivet_obj_spr: .db 0xDB, 0x73, 0xA, 0xC8, 0x93, 0x74, 0xA, 0xF0, 0x33
3E54 9B 73 0A C8+rivet_obj_spr: .db 0xDB, 0x73, 0xA, 0xC8, 0x93, 0x74, 0xA, 0xF0, 0x33
3E54 9B 74 0A F0+
3E54 33 75 0A 50
3E60 44 03 08 04 elevator_spr: .db 0x44, 3, 8, 4
3E64 37 74 37 C0+elevator_spr_locs:.db 0x37, 0xF4, 0x37, 0xC0, 0x37, 0x8C, 0x77, 0x70, 0x77
3E64 37 8C 77 70+
3E64 77 A4 77 D8
3E70 .db 0xA4, 0x77, 0xD8
 3E70
 3E70
3E70
3E70 11 01 00
                           loc_0_3E70:
                                                                                                                                 ; CODE XREF: check_and_handle_bonus+1A<sup>†</sup> j
                                                     1d
                                                                 de, #1
 3E73
3E73 06 7B
                           loc_0_3E73:
                                                                 b, #0x7B; '{'
                                                     1d
                                                     rra
 3E76 D2 28 1E
3E79 1E 03
3E7B 06 7D
3E7D 1F
                                                                  NC, loc_0_1E28
                                                                  b, #0x7D; '}'
                                                     ld
                                                     rra
 3E7E D2 28 1E
3E81 1E 05
3E83 06 7F
                                                                  NC, loc_0_1E28
                                                                 e, #5
b, #0x7F;
                                                     ld
 3E85 C3 28 1E
                                                     jp
                                                                  loc_0_1E28
                                                    SUBROUTINE
 3E88
 3E88
3E88
3E88
                                                                 a, (level_type)
hl
                                                                                                                                 ; CODE XREF: sub_0_2853+18↑p
                            sub_0_3E88:
        3A 27 62
                                                     ld
 3E8B E5
                                                     push
rst
 3E8C EF
3E8C
3E8D 00 00
                                                                 0x28
                                                                                                                                 ; go!
                                                                                                                                  ; Jump table
 3E8F 99 3E
                                                      .dw loc 0 3E99
 3E91 B0 28
3E93 E0 28
                                                     .dw 12_check_hammer_hit
.dw 13_check_hammer_hit
 3E95 01 29
3E97 00 00
                                                      .dw 14_check_hammer_hit
 3E99
3E99
```

3E99

3E99 E1

3E9A AF 3E9B 32 60 60

3EA0 11 20 00

3E9E 06 0A

loc\_0\_3E99:

pop xor ld

1d

hl

a (unk\_0\_6060), a b, #0xA de, #0x20; '' ; DATA XREF: sub 0 3E88+71o

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 29/12/2013, 1:02:59 AM
3EA3 DD 21 00 67
3EA7 CD C3 3E
                                                    ld
                                                                 ix, #unk_0_6700
                                                    call
                                                                 sub_0_3EC3
3EAA CD C3 3E
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
                                                                b, #5
ix, #unk_0_6400
sub_0_3EC3
                                                    ld
                                                    ld
call
                                                                                                                             ; fireball character data
                                                                a, (unk_0_6060)
                                                    ld
                                                    and
                                                    ret
                                                    ср
                                                                 #1
                                                    ret
3EBA C8
3EBB FE 03
3EBD 3E 03
3EBF D8
                                                                 #3
                                                                a, #3
                                                    ret
3EC2 C9
3EC2
3EC2
                                                                a, #7
                                                    1d
                           ; End of function sub_0_3E88
3EC2
3EC3
3EC3
3EC3
3EC3
3EC3
3EC3 DD CB 00 46
3EC3
                                                   SUBROUTINE
                                                                                                                               ; CODE XREF: sub_0_3E88+1F^p; sub_0_3E88+28^p ...
                           sub_0_3EC3:
                                                    bit
                                                                 0, 0(ix)
3EC7 CA FA 3E
                                                    jp
ld
sub
                                                                Z, loc_0_3EFA
 3ECA 79
3ECB DD 96 05
                                                                 NC, loc 0 3ED3
 3ECE D2 D3 3E
                                                    qŗ
 3ED1 ED 44
                                                    neg
3ED3
3ED3
3ED3 3C
                          loc_0_3ED3:
                                                                                                                               ; CODE XREF: sub_0_3EC3+B^j
                                                    inc
3ED4 95
3ED5 DA DE 3E
3ED8 DD 96 OA
3EDB D2 FA 3E
                                                    sub
                                                                 C, loc_0
0xA(ix)
                                                    jp
sub
                                                                    loc_0_3EDE
                                                                 NC, loc 0 3EFA
                                                    jр
3EDB D2 FA 3E
3EDE
3EDE
3EDE FD 7E 03
3EE1 DD 96 03
3EE4 D2 E9 3E
3EE7 ED 44
3EE9
                           loc_0_3EDE:
                                                                                                                               ; CODE XREF: sub_0_3EC3+12 j
                                                    ld
                                                                     3(iy)
                                                                 a, 3(3(ix)
                                                    sub
                                                    jp
neg
                                                                 NC, loc_0_3EE9
3EE9
3EE9
3EE9 94
3EEA DA F3 3E
3EED DD 96 09
3EF0 D2 FA 3E
                                                                                                                               ; CODE XREF: sub 0 3EC3+211i
                           loc_0_3EE9:
                                                    sub
                                                                    loc_0_3EF3
                                                    jр
                                                                 C, 10
9(ix)
                                                    sub
                                                                NC, loc_0_3EFA
                                                    jр
3EF0 D2 FA 3E
3EF3 3EF3 3A 60 60
3EF6 3C 3EF7 32 60 60
3EFA 3EFA
                           loc_0_3EF3:
                                                                                                                               ; CODE XREF: sub_0_3EC3+27<sup>†</sup> j
                                                                 a, (unk_0_6060)
                                                    ld
                                                    ld
                                                                 (unk_0_6060), a
3EFA
3EFA DD 19
3EFA
3EFC 10 C5
                                                                                                                               ; CODE XREF: sub_0_3EC3+4<sup>†</sup>j
; sub_0_3EC3+18<sup>†</sup>j ...
                          loc 0 3EFA:
                                                                ix, de
sub_0_3EC3
                                                    djnz
3EFE C9
3EFE
3EFE
                           ret; End of function sub_0_3EC3
; DATA XREF: 0000:3687↑o
                                                   , DATA XREF: 0000:3689|0 ....., 0x24, 0x15, 0x1E, 0x14, 0x1F, 0x10 ; DATA XREF: sub_0_2441|0 .db 0x1F, 0x16, 0x10, 0x11, 0x1D, 0x15, 0x22, 0x19, 0x13 .db 0x11, 0x10, 0x19, 0x1E, 0x13, 0x2B, 0x3F
3F0B 11 1D 15
3F24
3F24
3F24
3F24
3F24
3F24 21 AF 74
3F27 11 E0 FF
                                                   SUBROUTINE
                           display_tm:
                                                                                                                               ; CODE XREF: 0000:081C1p
                                                    ld
                                                                 hl, #VRAM_start+0xAF
                                                                de, #0xFFE0
(h1), #0x9F; 'f'
h1, de
(h1), #0x9E; 'x'
                                                    ld
3F2A 36 9F
3F2C 19
3F2D 36 9E
                                                    1d
                                                    add
ld
 3F2F C9
                                                    ret
3F2F
3F2F
3F2F
3F2F
                           ; End of function display_tm
3F30 50 52 4F 47+aProgramWeWouldTeachYou_Tel_toky:.ascii 'PROGRAM,WE WOULD TEACH YOU.*****TEL.TOKYO-JAPAN 044(244)'
3F30 52 41 4D 2C+ .ascii '2151 EXTENTION 304 SYSTEM DESIGN IKEGAMI CO. LIM.'
3F30 52 41 4D 2C+
3FA0
3FA0
3FA0
                                                                                                                               ; CODE XREF: 0000:0CD1<sup>†</sup> <sup>†</sup>
                           init_level_data_tmrs_spr:
3FA0 CD A6 3F
3FA3 C3 5F 0D
3FA6
                                                    call
jp
                                                               fix_retractable_ladders
init_level_data_tmrs_spr_cont
3FA6
3FA6
3FA6
3FA6
                                        SUBROUTINE
                                                                                                                                ; CODE XREF: 0000:3FA0†p
                           fix retractable ladders:
3FA6 3E 02
3FA8 F7
3FA9 06 02
                                                              a, #2
0x30
b, #2
                                                    ld
rst
                                                                                                                               ; ladders for cement pie level
; return if level bit not set
                                                    ld
 3FAB 21 6C 77
3FAB 21 6C 77
3FAE
3FAE 36 10
3FB0 23
3FB1 23
3FB2 36 C0
3FB4 21 8C 74
3FB7 10 F5
3FB9 C9
3FB9 SFB9
                                                    ld
                                                                hl, #VRAM start+0x36C
                                                                                                                               ; CODE XREF: fix_retractable_ladders+11|j
                           loc_0_3FAE:
                                                    ld
                                                                 (hl), #0x10
                                                    inc
inc
ld
                                                                 hl
                                                                h1
(h1), #0xC0; 'L'
h1, #VRAM_start+0x8C
loc_0_3FAE
                                                    ld
                                                    dinz
                           ret; End of function fix_retractable_ladders
 3FB9
```

3FB9

3FBA 00 00 00 00+ 3FC0 .db 0, 0, 0, 0, 0, 0

```
; CODE XREF: 0000:2285 p
       3FC0
                                                       sub 0 3FC0:
      3FC0 3FC0 21 4D 69 3FC3 36 03 3FC5 2C 3FC6 2C 3FC7 C9 3FC7 3FC7 3FC7
                                                                                                                             hl, #soft_sprite_ram+0x4D (hl), #3 l
                                                                                                      1d
                                                                                                      inc
                                                                                                                             1
                                                                                                       ret
                                                        ; End of function sub_0_3FC0
      3FC7
      3FC7 00 00 41 7F+
3FC8 07 7F 7F 18+
3FC8 07 7F 7F 18+
3FC8 07 7F 7F 18+
3FC8 3C 76 63 41+
3FC8 00 00 7F 7F+
3FC8 49 49 49 41+
3FC8 00 1C 3E 63+; end of 'ROM'
                                                                                                     .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, 0x
      3FC8 41 49 79
                                              79+
      6000
      6000
                                                       ; Segment type: Regular
; segment 'RAM'
     6000
6000
6000 ??
6001 ??
6001
6002 ??
6003 ??
                                                                                                       .org 0x6000
                                                                                                                                                                                                                                                   ; DATA XREF: 0000:0268\u00e90 o ; DATA XREF: display_credits+5\u00e90 o
                                                       RAM_start:
                                                                                                        .ds
                                                                                                       .ds 1
                                                       no_of_credits:
                                                                                                                                                                                                                                                    ; 0000:073F1r ...
      6003 ??
6004 ??
6005 ??
6005
6006 ??
                                                      coin state:
                                                                                                                                                                                                                                                    ; DATA XREF: check coin inserted+5 o
                                                                                                       .ds
                                                                                                        dя
                                                                                                                                                                                                                                                   ; DATA XREF: 0000:00C6 r ; check_coin_inserted+12 r ...
                                                      nmi_sequencer: .ds
                                                                                                       .ds 1
                                                      attract_mode_flag:.ds 1
sixteen_bit_countdown_msb:.ds 1
eight_bit_countdown:.ds 1
      6007 ??
6008 ??
6009*??
                                                                                                                                                                                                                                                   ; DATA XREF: return_NOT_16bit_timeout o ; DATA XREF: return_NOT_8bit_timeout o ; 0000:078E o ... ; DATA XREF: 0000:01EE o w
      600A ??
600A
600B ??
                                                      main_sequencer: .ds 1
                                                                                                                                                                                                                                                         0000:06FE†r ...
                                                                                                       .ds 1
     600B ??
600C ??
600D ??
600E ??
6010 ??
6010 ??
                                                                                                       .ds 1
                                                       current_player_D:.ds
current_player_E:.ds
                                                       two_players: .ds 1
controller_in: .ds 1
                                                                                                                                                                                                                                                   ; DATA XREF: 0000:00ACTw
                                                                                                                                                                                                                                                    ; 0000:1502†r ...
6012 ??
6013 ??
6013 ??
6015 ??
6015 ??
6016 ??
6017 ??
6018 ?? ??
6018
                                                      last_raw_in:
                                                                                                       .ds
                                                                                                        dя
                                                                                                        .ds
                                                                                                        .ds
                                                                                                        .ds
                                                      random_no:
                                                                                                       .ds
                                                                                                                                                                                                                                                    ; DATA XREF: rand↑r
                                                                                                                                                                                                                                                    ; rand+B<sup>†</sup>w ...
; DATA XREF: rand+3<sup>†</sup>o
; 0000:00B5<sup>†</sup>o ...
     6018
601A ??
601A
601B ??
601C ??
                                                      gen_purpose_timer:.ds 1
                                                                                                       .ds
      601D ??
601E ??
601F ??
6020 ??
                                                                                                        .ds
                                                      lives per game: .ds
                                                                                                                                                                                                                                                         DATA XREF: read dips and high score tbl+410
      6020
                                                                                                                                                                                                                                                         0000:09221r
                                                                                                                                                                                                                                                         DATA XREF: check_and_award_bonus+1E\u00e70710/15/20K
      6021 ??
6021
                                                      bonus_setting: .ds 1
      6022 ?? ?? ?? ?? coinage:
6026 ?? upright:
6026
6027 ??
                                                                                                                                                                                                                                                        DATA XREF: check_coin_inserted+27\u00e10
DATA XREF: 0000:0087\u00e1r
                                                                                                       .ds 4
                                                                                                        .ds 1
                                                                                                                                                                                                                                                         0000:099F|r ...
      6028 ??
6029 ??
602A ??
602B ??
                                                                                                       .ds
                                                                                                       .ds
.ds
.ds
      602C ??
602D ??
602E ??
602F ??
                                                                                                        .ds
                                                                                                       .ds
                                                                                                        .ds
      6030 ??
6030
6031*??
6031*
                                                                                                                                                                                                                                                   ; DATA XREF: 0000:1499\u00f30 
; 0000:14FC\u00f30 
; DATA XREF: 0000:1591\u00f3r 
; 0000:159A\u00f3w ...
                                                      unk_0_6030:
                                                                                                       .ds
                                                      byte_0_6031:
                                                                                                     .ds 1
      6032*?
6032*
6032*
6033 ??
6034 ??
                                                                                                                                                                                                                                                         DATA XREF: 0000:158A10
                                                      byte_0_6032:
                                                                                                     .ds 1
                                                       regi_second_cntr:.ds 1
                                                       regi_vblank_cntr:.ds 1
regi_current_char:.ds 1
regi_entry_cursor_loc:.ds 2
                                                                                                                                                                                                                                                    ; DATA XREF: 0000:14DC1o
      6035 ??
6036*?? ??
6036*
6038 ?? ??
                                                                                                                                                                                                                                                    ; DATA XREF: 0000:14B0\()w
                                                                                                                                                                                                                                                         0000:1553 r ...
DATA XREF: 0000:14C9 w
                                                      regi_ptr_hs_entry_flag:.ds 2
      6038
603A ?? ??
603A
                                                                                                                                                                                                                                                   ; 0000:15A0\r ...
; DATA XREF: 0000:14D0\r
; 0000:15D8\r
                                                      regi_ptr_hs_entry_name:.ds 2
      603C ??
603D ??
603E ??
603F ??
                                                                                                       .ds 1
                                                                                                       .ds
.ds
                                                                                                        .ds
      6040 ??
6040
                                                      pl_ingame_data: .ds
                                                                                                                                                                                                                                                    ; DATA XREF: 0000:093E10
                                                                                                                                                                                                                                                    ; game init data copied here
      6041 ??
                                                                                                       .ds 1
      6041 ??
6042 ?? ??
6044 ??
6045 ??
6046 ??
6047 ??
6048 ??
                                                                                                        .ds
                                                                                                                                                                                                                                                   ; ptr sequence data
                                                                                                        .ds
                                                                                                        .ds
                                                                                                     .ds
                                                                                                                                                                                                                                                   ; DATA XREF: 0000:0909<sup>†</sup>0; 0000:091F<sup>†</sup>0 ...
                                                      p2_ingame_data:
      6048
      6049 ??
                                                                                                        .ds
                                                                                                                  1
      604A
604B
                    ??
                                                                                                       .ds
      604C
                    ??
                                                                                                        .ds
      604E ??
604F ??
                                                                                                       .ds
                                                                                                       .ds
      6050 ??
                                                                                                        .ds
      6051 ??
                                                                                                        .ds
```

; DATA XREF: 0000:0291 o

; queue\_fg\_vector\_fn+1\u00e10
; DATA XREF: read\_dips\_and\_high\_score\_tbl+56\u00f10

p1 score:

p2\_score:

high score:

60BD ?? ...ds 1 60BE ?? ...ds 1 60BF ?? ...ds 1 60CO ?? ?? ?? ??+fg\_vector\_fn\_params:.ds 0x4( 60CO ?? ?? ?? ??+high\_score\_tbl\_ram:.ds 0x22

60B2 60B5 60B5 60B5

60B8 ?? ?? ??

60B8 60BB 60BC .ds 3

.ds

.ds

??+fg\_vector\_fn\_params:.ds 0x40

.ds 3

```
Page: 88
```

```
0000:3673↑o
                                                                                                                                DATA XREF: 0000:3675 o
                                                      .ds 0x22
                                                                                                                                2nd
DATA XREF: 0000:3677↑o
                                                      .ds 0x22
                                                       .ds 0x22
                                                                                                                                DATA XREF: 0000:36791o
                                                                                                                                4th
DATA XREF: 0000:3678 o
                                                       .ds 0x22
                                                                                                                                5th
                                                       .ds 1
                                                       .ds
.ds
                                                       .ds
.ds
.ds
                                                       .ds
.ds
.ds
.ds
.ds
.ds
.ds
.ds
.ds
                                                                                                                             ; DATA XREF: sub_0_13CA+D10
                                                       .ds
.ds
.ds
                                                       ; DATA XREF: sub_0_13CA†o
; DATA XREF: sub_0_13CA+2F†o
                                                       .ds
.ds
                                                       .ds
      61FF ??
6200 ??
6200
6201 ??
6202 ??
6203 ??
6203
6204 ??
6205 ??
                                                                                                                             ; DATA XREF: return_if_mario_not_alive\r
; 0000:0BE3\r ...
                               mario_alive_flag:.ds 1
                                                       .ds
                               mario_animation_cell:.ds 1
                                                                                                                             ; DATA XREF: animate_kong_and_pauline+D6fr
; animate_kong_and_pauline+10Efr ...
                               mario_y:
                                                      .ds 1
                               unk_0_6204:
                                                                                                                             ; DATA XREF: sub_0_19DA+13fr
                                                       .ds 1
      6205
6206 ??
6207 ??
6207
                                                                                                                             ; sub_0_1A33+221r ...
                               unk_0_6206:
                                                                                                                             ; DATA XREF: sub_0_1AC3+54\uparrow o ; sub_0_1AC3+9D\uparrow o ...
                               mario_flipy_tile:.ds 1
      6208 ??
6209 ??
                               mario_flipx_colour:.ds 1 unk_0_6209: .ds 1
                                                                                                                             ; DATA XREF: 0000:0FA5\uparrowo ; init to 4 ; init to 8
       6209
             ??
                               .ds 1
mario_x_before_jump:.ds 1
mario_y_before_jump:.ds 1
      620A
620B
620C
       620D ??
                                                       .ds
       620E ??
                               unk_0_620E:
                                                       .ds 1
                                                                                                                             ; DATA XREF: sub_0_1AC3+E6 w
```

```
sub_0_1AC3+1B6|o ...
DATA XREF: sub_0_1AC3+1CE|r
sub_0_1AC3+1EA|r ...
mario_???
DATA XREF: sub_0_1AC3+B0|o
 620E
 620F ??
                                             mario_cell_animate_cntr:.ds 1
620F
620F
6210 ??
                                             unk_0_6210:
                                                                                                                                                                                                                           ; sub_0_1F46+F↑w ...
6210
6211 ??
6212 ??
6213 ??
6214 ??
6215 ??
6216 ??
6218 ??
6218 ??
6218 ??
6210 ??
6210 ??
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6210 ??
6220 ??
                                             unk_0_6211:
unk_0_6212:
unk_0_6213:
unk_0_6214:
                                                                                         .ds
.ds
                                                                                          .ds
                                             mario_climbing:
mario_jumping:
unk_0_6217:
                                                                                         .ds
.ds
.ds
                                            unk_0_6218:
unk_0_6219:
unk_0_621A:
                                                                                          .ds
                                                                                         .ds
                                                                                                                                                                                                                          ; DATA XREF: sub_0_1AC3+5D<sup>†</sup>o; sub_0_1AC3+2B3<sup>†</sup>r ...
                                                                                                                                                                                                                          ; DATA XREF: sub_0_1AC3+262\u00f3o; sub_0_1AC3+2BD\u00edr
                                            unk_0_621C:
                                                                                          .ds
                                                                                                                                                                                                                          ; DATA XREF: sub_0_1AC3+7\r\; sub_0_1AC3+92\rangle \cdots
                                            unk_0_621E:
                                                                                         .ds
                                            unk_0_621F:
unk_0_6220:
unk_0_6221:
unk_0_6222:
                                                                                         .ds
                                                                                         .ds
                                                                                         .ds
                                                                                         .ds
                                             unk 0 6224:
                                                                                          ds
                                                                                         .ds
.ds
.ds
                                             unk_0_6225:
                                            level_type:
                                                                                                                                                                                                                               DATA XREF: sub_0_30+14\u00e10
                                                                                                                                                                                                                               0000:01EA w ...
DATA XREF: 0000:01D9 w
                                            lives_left:
                                                                                         .ds 1
                                                                                                                                                                                                                               check_and_award_bonus+28\u00f30 ...
DATA XREF: 0000:01D6\u00f3w
                                             level:
                                                                                         .ds 1
6229
6229
6220 ??
622C ??
622C ??
622E ??
622E ??
6231 ??
6231 ??
6232 ??
6233 ??
6234 ??
6236 ??
6236 ??
6237 ??
                                                                                                                                                                                                                               difficulty_timer_tick+15↑r ... keeps incrementing
                                                                                         .ds 2
                                             seq_data:
                                                                                                                                                                                                                          ; DATA XREF: display_lUP+lB\rangle o ; 0000:12F6\rangle w ...
                                             seen_intro:
                                                                                         .ds 1
                                                                                                                                                                                                                          ; DATA XREF: 0000:0C05\r; 0000:0C0E\runger ...
                                             height:
                                                                                        .ds 1
            last_seq_lsb:
                                                                                          .ds
                                                                                         6239
623A
623B
623C
623D
623E
623F
6240
6241
6242
6243
6244
6245
6246
6247
6248
6249
624A
624B
624C
624D
624E
624F
6250
6251
6252
6253
6254
6255
6256
6257
6258
6259
625A
625B
625C
625D
625E
625F
6260
6261
6262
6262
6263
6264
6265
6266
6267
6268
6269
626A
626B
626C
626D
 626E
626F
6270
6271
6272
6273
6274
6270 ??
6271 ??
6272 ??
6273 ??
6274 ??
6275 ??
                                                                                          .ds
```

```
6277 ??
6278 ??
6279 ??
627A ??
627B ??
627C ??
627D ??
627F ??
6280 ??
6280 ??
6281 ??
6283 ??
                                                                                                                      .ds 1
                                                                                                                       .ds
                                                                                                                      .ds
.ds
.ds
.ds
.ds
                                                                                                                       .ds
                                                          unk 0 6280:
                                                                                                                                                                                                                                                                                              ; DATA XREF: 0000:0F64<sup>o</sup>; 0000:0F72<sup>o</sup>...
                                                                                                                      .ds
                5.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.55.5<l
                                                                                                                     .ds
6282
6283
6284
6285
6286
6287
6288
6289
                                                                                                                     .ds
.ds
.ds
                                                                                                                      .ds
.ds
.ds
.ds
                                                            unk_0_6288:
                                                                                                                                                                                                                                                                                              ; DATA XREF: sub_0_2207+E<sup>o</sup>
 628A
628B
628C
628D
                                                                                                                     .ds
.ds
.ds
.ds
628E ??
628F ??
6298 ??
6290 ??
6292 ??
6293 ??
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6200 ??
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6200 ??
                                                                                                                     .ds
                                                                                                                                                                                                                                                                                              ; DATA XREF: sub_0_1A33+53<sup>†</sup>o; sub_0_1E57+29<sup>†</sup>r
                                                           unk_0_6290:
                                                                                                                     .ds
.ds
.ds
.ds
                                                            unk 0 6291:
                                                            unk_0_6292:
                                                                                                                                                                                                                                                                                               ; DATA XREF: sub_0_1A33+48↑o
                                                                                                                      .ds
.ds
.ds
.ds
.ds
.ds
                                                                                                                      .ds
                                                                                                                       .ds
                                                                                                                                                                                                                                                                                               ; DATA XREF: 0000:16BC w
                                                           unk_0_62A0:
                                                                                                                      .ds
                                                                                                                                                                                                                                                                                                   0000:16D2\dagger ...
DATA XREF: sub_0_2602+14\dagger o
                                                           unk_0_62A1:
                                                                                                                      .ds 1
                                                                                                                                                                                                                                                                                              ; DATA XREF: sub_0_2523+2E|r; sub_0_262F|o ...
                                                           unk_0_62A3:
                                                                                                                     .ds 1
                                                                                                                                                                                                                                                                                             ; DATA XREF: sub_0_2679+7\dagger o ; DATA XREF: sub_0_2523+39\dagger r ; sub_0_2679+14\dagger o ; DATA XREF: sub_0_27DA\dagger o
                                                            unk 0 62A5:
                                                                                                                      .ds
                                                            unk_0_62A6:
                                                                                                                      .ds
                                                            unk_0_62A7:
                                                                                                                     .ds
                                                                                                                     .ds
.ds
                                                            unk_0_62A8:
                                                           unk_0_62AA:
                                                                                                                       .ds
62AB ??
62AC ??
62AD ??
62AE ??
62AF*?
62AF*
62BO ??
62BO
                                                                                                                      .ds
.ds
                                                           unk_0_62AC:
                                                                                                                                                                                                                                                                                                     DATA XREF: display_1UP+53 w
                                                           byte 0 62AF:
                                                                                                                     .ds
                                                                                                                                                                                                                                                                                                     display_1UP+98 r ...
DATA XREF: 0000:063A r
0000:0F8E r ...
                                                           bonus_timer_init_value:.ds 1
                                                                                                                                                                                                                                                                                                     0000:0F8E\u00e7o ...
level timer #1
DATA XREF: sub_0_2C03+9\u00e7r
62B0
62B1 ??
62B1
62B1
                                                           unk_0_62B1:
                                                                                                                     .ds 1
                                                                                                                                                                                                                                                                                                   DATA XREF: sub_0_2C03+9fr

sub_0_2C8F+4Bfo ...

level timer #2

level timer #3

level timer #4

DATA XREF: sub_0_2FCB+3fo

level timer #5
62B2 ??
62B3 ??
62B4 ??
62B4
                                                            unk_0_62B2:
                                                                                                                     .ds 1
                                                            unk_0_62B3:
unk_0_62B4:
                                                                                                                     .ds
62B5 ??
62B6 ??
62B8 ??
62B8 ??
62B8 ??
62B8 ??
62B8 ??
62B8 ??
62B2 ??
62B2 ??
62B2 ??
62B3 ??
62B4 ??
62B5 ??
62B6 ??
62B6 ??
62B7 ??
62C4 ??
62C4 ??
62C6 ??
62C6 ??
62C6 ??
62C7 ??
62C8 ??
62C9 ??
                                                                                                                       .ds
                                                                                                                     .ds
.ds
.ds
                                                            unk_0_62B8:
                                                                                                                                                                                                                                                                                              ; DATA XREF: sub_0_3A2+9<sup>†</sup>o
                                                            unk_0_62B9:
unk_0_62BA:
                                                                                                                     .ds
                                                                                                                                                                                                                                                                                              ; DATA XREF: sub_0_3A2+2F^{\dagger}o; sub_0_3A2+3E^{\dagger}w
                                                                                                                      .ds
                                                                                                                     62DD ??
62DE ??
                                                                                                                       .ds
```

```
.ds 1
634F ??
6350 ??
6351 ??
6352 ??
6353 ??
6354 ??
6356 ??
6356 ??
6358 ??
6358 ??
6358 ??
6350 ??
                                                          unk 0 6350:
                                                                                                                  .ds
                                                                                                                  .ds
.ds
.ds
                                                          unk_0_6351:
unk_0_6352:
unk_0_6353:
                                                         unk_0_6354:
                                                                                                                  .ds
.ds
.ds
.ds
.ds
.ds
635C
635D
635E
635F
                 ??
                                                                                                                  .ds
.ds
.ds
                                                                                                                  .ds
.ds
.ds
6360
6361
6362
6363
6364
6365
6366
6367
                 .ds
.ds
.ds
                                                                                                                  .ds
.ds
.ds
.ds
.ds
 636A
636B
636C
636D
636E
636F
6370
6371
6372
                                                                                                                  .ds
.ds
.ds
                 6372
6373
6374
6375
6376
6377
6378
6379
                                                                                                                  .ds
.ds
.ds
.ds
.ds
.ds
 637A
637B
637C
637D
                                                                                                                  .ds
.ds
                ??
??
??
??
??
637E
637F
6380
                                                                                                                  .ds
.ds
                                                          unk_0_6380:
                                                          unk_0_6381:
unk_0_6382:
unk_0_6383:
unk_0_6384:
                                                                                                                                                                                                                                                                                      ; DATA XREF: difficulty timer tick+7<sup>†</sup>o
 6381
                                                                                                                   .ds
6382
6383
6384
                                                                                                                  .ds
                                                                                                                                                                                                                                                                                      ; DATA XREF: 0000:02D1\[o\]
; DATA XREF: difficulty_timer_tick\[o\]
; DATA XREF: display_1UP+23\[r\]
; display_1UP+67\[o\]
...
                                                                                                                   .ds
6385 ??
6385
6386 ??
6387 ??
                                                          intro sequencer:.ds
                                                          unk_0_6386:
unk_0_6387:
                                                                                                                  .ds 1
                                                                                                                  .ds
6388 ??
6388
6389 ??
638A ??
                                                         unk_0_6388:
                                                                                                                  .ds 1
                                                                                                                                                                                                                                                                                     ; DATA XREF: 0000:161f<sup>†</sup>r; 0000:1633<sup>†</sup>r ...
                                                          unk_0_6389:
                                                                                                                   .ds 1
                                                                                                                                                                                                                                                                                      ; DATA XREF: 0000:07CB\r; 0000:07D5\runkerwork ...
                                                         title_flash_tmr_1:.ds 1
 638A
 638B ??
638C ??
                                                          title_flash_tmr_2:.ds 1
bonus_timer: .ds 1
                                                         next_girder_to_deform:.ds 1
 638D ??
                                                                                                                                                                                                                                                                                      ; DATA XREF: 0000:0B58 w
                                                                                                                                                                                                                                                                                           DATA XREF: 0000:0B58]w
0000:0B94]r ...
DATA XREF: display_1UP+81|w
0000:0B3B]r ...
DATA XREF: sub_0_2C03+4C|w
sub_0_2C8F+8D|r ...
DATA XREF: animate_kong_and_pauline+2B|oanimate_kong_and_pauline+2B|oanimate_kong_and_pauline+2B|r ...
 638D
638E*??
638E*
                                                         byte_0_638E: .ds 1
638F ??
638F
6390 ??
6390
                                                         unk 0 638F:
                                                                                                               .ds 1
                                                         kong_thrash_tmr:.ds 1
                                                         kong_thrash_flag:.ds 1
unk_0_6392: .ds 1
barrel_deployment:.ds 1
unk_0_6394: .ds 1
6391 ??
6392 ??
6393 ??
6394 ??
                                                                                                                                                                                                                                                                                      ; DATA XREF: sub_0_2ED4+4A1r
6394 ??
6394
6395 ??
6395 ??
6397 ??
6398 ??
                                                                                                                                                                                                                                                                                           sub_0_2ED4+7C↑o
sub_0_2ED4+7C↑o
sub_0_2ED4+87↑w ...
                                                         unk_0_6395:
                                                                                                                   ds 1
                                                                                                                .ds 1
                                                         unk 0 6396:
                ??
                                                         .ds 1
mario_on_elevator:.ds
.ds 1
                                                         unk_0_639A:
 639A
                                                                                                                  .ds 1
639B ??
639B
639C ??
639D ??
                                                         unk_0_639B:
                                                                                                                                                                                                                                                                                      ; DATA XREF: sub_0_2523\u00e70 o ; sub_0_2523+65\u00e7w
                                                                                                                   .ds
                                                                                                                                                                                                                                                                                      ; DATA XREF: 0000:127F1r
                                                         mario_death_state:.ds 1
639D
639E ??
639E
                                                                                                                                                                                                                                                                                      ; 0000:1295\fo ...
; DATA XREF: 0000:129B\fow
; 0000:12B2\fo
                                                         death_spin_counter:.ds 1
639F ??
63A0 ??
63A0
63A1 ??
                                                                                                                                                                                                                                                                                      ; DATA XREF: sub_0_3A2+39\w
; 0000:0768\w ...
                                                         unk_0_63A0:
                                                          unk_0_63A1:
                                                                                                                 .ds 1
63A2
63A3
63A4
                                                          unk_0_63A2:
unk_0_63A3:
unk_0_63A4:
                                                                                                                 .ds
.ds
.ds
                ??
                                                         unk_0_63A5: .ds
unk_0_63A6: .ds
height_counter: .ds
 63A5
                                                                                                                  .ds
 63A6
63A7
63A7
                                                                                                                                                                                                                                                                                      ; DATA XREF: 0000:0BFA<sup>†</sup>o; 0000:0C43<sup>†</sup>r ...
 63A8 ?? ??
                                                         disp_loc_for_height_string:.ds 2
 63AA ??
63AB*?? ??
63AB*
63AD*?? ??
                                                         .ds 1 segment_addr_1: .ds 2
                                                                                                                                                                                                                                                                                            DATA XREF: draw_level_background+141w
                                                                                                                                                                                                                                                                                           draw_level_background+55|r ...
DATA XRFF: draw_level_background+41|w
draw_level_background+88|r
DATA XREF: draw_level_background+20|w
                                                         segment_addr_2: .ds 2
 63AD*
63AF*??
63AF*
                                                         start_tile_index:.ds 1
                                                                                                                                                                                                                                                                                           DATA XREF: draw_level_background+20\formal draw_level_background+39\formal w draw_level_background+30\formal r...
DATA XREF: draw_level_background+20\formal draw_level_background+20\formal xREF: draw_level_background+30\formal r...
DATA XREF: draw_level_background+33\formal w draw_level_background+30\formal w draw_level_background+30\formal w draw_level_background+30\formal w draw_level_background+30\formal w draw_level_background+20\formal w draw_level_background+20\formal w draw_level_background+20\formal w draw_level_background+30\formal w draw_level_background+20\formal w draw_level_background+20\formal w draw_level_background+20\formal w draw_level_background+20\formal w draw_level_background+30\formal w d
  63B0*??
                                                         end_tile_index: .ds 1
 63B0*
63B1*??
                                                                                                               .ds 1
                                                         dY:
 63B1
 63B2*??
                                                         dx:
                                                                                                                .ds 1
```

```
63B2*
63B3*??
63B3*
63B4*??
63B5*??
63B5*
63B6 ??
63B7 ??
63B8 ??
                                                                                                                                                                                                                                                                                                                                                                                                                                    draw_level_background+4C1r ...
DATA XREF: draw_level_background+11w
draw_level_background+441r ...
DATA XREF: draw_level_background+1A1w
DATA XREF: draw_level_background+B51w
                                                                                      segment_type: .ds 1
                                                                                     tile_byte_1:    .ds 1
current_tile_in_segment:.ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                              ; draw_level_background+BB|r ...
                                                                                                                                                                         .ds 1
                                                                                    unk_0_63B7: .ds 1
bonus_timer_expired:.ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: 0000:0635 r
; 0000:06AC o
  63B8
 63B9 ??
63BA ??
63BB ??
                                                                                     unk_0_63B9:
                                                                                                                                                                         .ds 1
                                                                                                                                                                         .ds
.ds
63BB ??
63BC ??
63BD ??
63BF ??
63C0*?? ??
63C0*
                                                                                                                                                                           .ds
                                                                                                                                                                         .ds
                                                                                                                                                                           .ds
                                                                                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: display_1UP+AF^w; 0000:0B64^w ...; DATA XREF: display_1UP+59^w; display_1UP+58^r ...; DATA XREF: display_1UP+5F^w; 0000:0B6D^r ...
                                                                                     ptr_current_sequence:.ds 2
                                                                                    ptr_current_jump_up_data:.ds 2
G3C2**
G3C4*?? ??
G3C4*?? ??
G3C4*?? ??
G3C6 ??
G3C8 ??
G3C9 ??
G3C8 ??
G3C9 ??
G3C8 ??
G3C9 ??
G3C0 ??
G3C1 ??
G3C2 ??
G3C3 ??
G3C3 ??
G3C4 ??
G3C6 ??
G3C7 ??
G3C7 ??
G3C7 ??
G3C8 ??
G3C7 ??
G3C8 ??
G3C7 ??
G3C8 ??
G3C9 ?
                                                                                     ptr_current_jump_left_data:.ds 2
                                                                                                                                                                         .ds 1
                                                                                                                                                                          .ds
                                                                                                                                                                          .ds
                                                                                      unk_0_63C8:
                                                                                                                                                                          .ds
                                                                                                                                                                           dя
                                                                                     attract_movement_entry:.ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: next_attract_action+3↑o
                                                                                                                                                                         .ds
                                                                                                                                                                         .ds
.ds
.ds
                                                                                                                                                                         .ds
.ds
.ds
.ds
.ds
.ds
                                                                                                                                                                         ; DATA XREF: sub_0_31B1+7↑o
                                                                                    unk_0_63E0:
                                                                                                                                                                         .ds
.ds
.ds
                                                                                                                                                                           .ds
                                                                                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: 0000:10E9\cdot o ; sub_0_286F+2A\cdot o ...
                                                                                     unk_0_6400:
                                                                                                                                                                          .ds
                                                                                                                                                                         .ds
                                                                                                                                                                          .ds
                                                                                                                                                                         .ds
                                                                                                                                                                           .ds
                                                                                     unk_0_6407:
                                                                                                                                                                          .ds
                                                                                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: 0000:0FE5\u00f10 o ; 0000:1022\u00f10 o ...
                                                                                                                                                                         .ds
                                                                                                                                                                         .ds
.ds
.ds
6409 ??
640A ??
640B ??
640C ??
640C ??
640E ??
640E ??
6410 ??
6411 ??
6413 ??
6414 ??
6416 ??
6416 ??
6418 ??
                                                                                                                                                                         641B
641C
641D
641E
                          ??
                        ??
 641F ??
6420 ??
                                                                                                                                                                           .ds
```

unk 0 6500:

unk\_0\_6507:

.ds .ds .ds .ds .ds

.ds

6500 6501 ?? 6502 ?? 6503 ?? 6504 ?? 6505 ?? 6506 ??

; DATA XREF: init\_spring\_sprites+C\u00f1o ; 0000:28F9\u00e9o ...

; DATA XREF: init\_spring\_sprites+3\u00e100

File: E:\Projects\pace\pacedev.ne	et/sw/re
6747 ??	.ds 1
6748 ??	.ds 1
6749 ?? 674A ??	.ds 1
674B ??	.ds 1
674C ??	.ds 1
674D ?? 674E ??	.ds 1
674F ??	.ds 1
6750 ?? 6751 33	.ds 1
6751 ?? 6752 ??	.ds 1
6753 ??	.ds 1
6754 ?? 6755 ??	.ds 1
6756 ??	.ds 1
6757 ??	.ds 1
6758 ?? 6759 ??	.ds 1
675A ??	.ds 1
675B ??	.ds 1
675C ?? 675D ??	.ds 1
675E ??	.ds 1
675F ?? 6760 ??	.ds 1
6761 ??	.ds 1
6762 ??	.ds 1
6763 ?? 6764 ??	.ds 1
6765 ??	.ds 1
6766 ??	.ds 1
6767 ?? 6768 ??	.ds 1
6769 ??	.ds 1
676A ??	.ds 1
676B ?? 676C ??	.ds 1
676D ??	.ds 1
676E ?? 676F ??	.ds 1
676F ?? 6770 ??	.ds 1
6771 ??	.ds 1
6772 ?? 6773 ??	.ds 1
6774 ??	.ds 1
6775 ??	.ds 1
6776 ?? 6777 ??	.ds 1
6778 ??	.ds 1
6779 ??	.ds 1
677A ?? 677B ??	.ds 1
677C ??	.ds 1
677D ??	.ds 1
677E ?? 677F ??	.ds 1
6780 ??	.ds 1
6781 ?? 6782 ??	.ds 1
6782 ?? 6783 ??	.ds 1
6784 ??	.ds 1
6785 ?? 6786 ??	.ds 1
6787 ??	.ds 1
6788 ??	.ds 1
6789 ?? 678A ??	.ds 1
678B ??	.ds 1
678C ?? 678D ??	.ds 1
678D ?? 678E ??	.ds 1
678F ??	.ds 1
6790 ?? 6791 ??	.ds 1
6792 ??	.ds 1
6793 ?? 6794 ??	.ds 1
6795 ??	.ds 1
6796 ??	.ds 1
6797 ?? 6798 ??	.ds 1
6799 ??	.ds 1
679A ??	.ds 1
679B ?? 679C ??	.ds 1
679D ??	.ds 1
679E ?? 679F ??	.ds 1
67A0 ??	.ds 1
67A1 ??	.ds 1
67A2 ?? 67A3 ??	.ds 1
67A4 ??	.ds 1
67A5 ??	.ds 1
67A6 ?? 67A7 ??	.ds 1
67A8 ??	.ds 1
67A9 ?? 67AA ??	.ds 1
67AB ??	.ds 1
67AC ??	.ds 1
67AD ?? 67AE ??	.ds 1
67AF ??	.ds 1
67B0 ?? 67B1 ??	.ds 1
67B1 ?? 67B2 ??	.ds 1
67B3 ??	.ds 1
67B4 ?? 67B5 ??	.ds 1
67B6 ??	.ds 1
67B7 ?? 67B8 ??	.ds 1
67B8 ?? 67B9 ??	.ds 1
	.ds 1
67BA ??	.us 1

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

File: E:\Projects\pace\pace	dev.net\sw\re
6A91 ??	.ds 1
6A92 ??	.ds 1
6A93 ??	.ds 1
6A94 ?? 6A95 ??	.ds 1 .ds 1
6A96 ??	.ds 1
6A97 ?? 6A98 ??	.ds 1 .ds 1
6A99 ??	.ds 1
6A9A ??	.ds 1
6A9B ?? 6A9C ??	.ds 1 .ds 1
6A9D ??	.ds 1
6A9E ??	.ds 1
6A9F ?? 6AA0 ??	.ds 1 .ds 1
6AA1 ??	.ds 1
6AA2 ??	.ds 1
6AA3 ?? 6AA4 ??	.ds 1 .ds 1
6AA5 ??	.ds 1
6AA6 ??	.ds 1
6AA7 ?? 6AA8 ??	.ds 1 .ds 1
6AA9 ??	.ds 1
6AAA ?? 6AAB ??	.ds 1 .ds 1
6AAC ??	.ds 1
6AAD ??	.ds 1
6AAE ?? 6AAF ??	.ds 1 .ds 1
6AB0 ??	.ds 1
6AB1 ??	.ds 1
6AB2 ?? 6AB3 ??	.ds 1 .ds 1
6AB4 ??	.ds 1
6AB5 ?? 6AB6 ??	.ds 1 .ds 1
6AB7 ??	.ds 1
6AB8 ??	.ds 1
6AB9 ?? 6ABA ??	.ds 1 .ds 1
6ABB ??	.ds 1
6ABC ??	.ds 1
6ABD ?? 6ABE ??	.ds 1 .ds 1
6ABF ??	.ds 1
6ACO ??	.ds 1
6AC1 ?? 6AC2 ??	.ds 1 .ds 1
6AC3 ??	.ds 1
6AC4 ?? 6AC5 ??	.ds 1
6AC5 ?? 6AC6 ??	.ds 1 .ds 1
6AC7 ??	.ds 1
6AC8 ?? 6AC9 ??	.ds 1 .ds 1
6ACA ??	.ds 1
6ACB ??	.ds 1
6ACC ?? 6ACD ??	.ds 1 .ds 1
6ACE ??	.ds 1
6ACF ??	.ds 1
6AD0 ?? 6AD1 ??	.ds 1 .ds 1
6AD2 ??	.ds 1
6AD3 ?? 6AD4 ??	.ds 1 .ds 1
6AD5 ??	.ds 1
6AD6 ??	.ds 1
6AD7 ?? 6AD8 ??	.ds 1 .ds 1
6AD9 ??	.ds 1
6ADA ?? 6ADB ??	.ds 1 .ds 1
6ADB ?? 6ADC ??	.ds 1
6ADD ??	.ds 1
6ADE ?? 6ADF ??	.ds 1 .ds 1
6AEO ??	.ds 1
6AE1 ??	.ds 1
6AE2 ?? 6AE3 ??	.ds 1 .ds 1
6AE4 ??	.ds 1
6AE5 ?? 6AE6 ??	.ds 1
6AE6 ?? 6AE7 ??	.ds 1 .ds 1
6AE8 ??	.ds 1
6AE9 ?? 6AEA ??	.ds 1 .ds 1
6AEB ??	.ds 1
6AEC ??	.ds 1
6AED ?? 6AEE ??	.ds 1 .ds 1
6AEF ??	.ds 1
6AF0 ??	.ds 1
6AF1 ?? 6AF2 ??	.ds 1 .ds 1
6AF3 ??	.ds 1
6AF4 ?? 6AF5 ??	.ds 1 .ds 1
6AF6 ??	.ds 1
6AF7 ??	.ds 1
6AF8 ?? 6AF9 ??	.ds 1 .ds 1
6AFA ??	.ds 1
6AFB ??	.ds 1
6AFC ?? 6AFD ??	.ds 1 .ds 1
6AFE ??	.ds 1
6AFF ??	.ds 1
6B00 ?? 6B01 ??	.ds 1 .ds 1
6B02 ??	.ds 1
6B03 ??	.ds 1
6B04 ??	.ds 1

	() ( (	( (
6B05 ??		.ds 1
6B06 ??		.ds 1
6B07 ??		.ds 1
6B08 ??		.ds 1
6B09 ??		.ds 1
6B0A ?? 6B0B ??		.ds 1
6B0C ??		.ds 1
6B0D ??		.ds 1
6B0E ??		.ds 1
6B0F ??		.ds 1
6B10 ??		.ds 1
6B11 ?? 6B12 ??		.ds 1
6B12 ?? 6B13 ??		.ds 1
6B14 ??		.ds 1
6B15 ??		.ds 1
6B16 ??		.ds 1
6B17 ??		.ds 1
6B18 ??		.ds 1
6B19 ?? 6B1A ??		.ds 1
6B1B ??		.ds 1
6B1C ??		.ds 1
6B1D ??		.ds 1
6B1E ??		.ds 1
6B1F ??		.ds 1
6B20 ??		.ds 1
6B21 ?? 6B22 ??		.ds 1
6B23 ??		.ds 1
6B24 ??		.ds 1
6B25 ??		.ds 1
6B26 ??		.ds 1
6B27 ??		.ds 1
6B28 ?? 6B29 ??		.ds 1
6B2A ??		.ds 1
6B2B ??		.ds 1
6B2C ??		.ds 1
6B2D ??		.ds 1
6B2E ??		.ds 1
6B2F ??		.ds 1
6B30 ??		.ds 1
6B31 ?? 6B32 ??		.ds 1
6B33 ??		.ds 1
6B34 ??		.ds 1
6B35 ??		.ds 1
6B36 ??		.ds 1
6B37 ??		.ds 1
6B38 ?? 6B39 ??		.ds 1
6B3A ??		.ds 1
6B3B ??		.ds 1
6B3C ??		.ds 1
6B3D ??		.ds 1
6B3E ??		.ds 1
6B3F ?? 6B40 ??		.ds 1
6B41 ??		.ds 1
6B42 ??		.ds 1
6B43 ??		.ds 1
6B44 ??		.ds 1
6B45 ??		.ds 1
6B46 ?? 6B47 ??		.ds 1
6B48 ??		.ds 1
6B49 ??		.ds 1
6B4A ??		.ds 1
6B4B ??		.ds 1
6B4C ??		.ds 1
6B4D ?? 6B4E ??		.ds 1
6B4F ??		.ds 1
6B50 ??		.ds 1
6B51 ??		.ds 1
6B52 ??		.ds 1
6B53 ??		.ds 1
6B54 ?? 6B55 ??		.ds 1
6B56 ??		.ds 1
6B57 ??		.ds 1
6B58 ??		.ds 1
6B59 ??		.ds 1
6B5A ??		.ds 1
6B5B ?? 6B5C ??		.ds 1
6B5C ??		.ds 1
6B5E ??		.ds 1
6B5F ??		.ds 1
6B60 ??		.ds 1
6B61 ??		.ds 1
6B62 ?? 6B63 ??		.ds 1
6B64 ??		.ds 1
6B65 ??		.ds 1
6B66 ??		.ds 1
6B67 ??		.ds 1
6B68 ??		.ds 1
6B69 ?? 6B6A ??		.ds 1
6B6B ??		.ds 1
6B6C ??		.ds 1
6B6D ??		.ds 1
6B6E ??		.ds 1
6B6F ??		.ds 1
6B70 ?? 6B71 ??		.ds 1
6B71 ??		.ds 1
6B73 ??		.ds 1
6B74 ??		.ds 1
6B75 ??		.ds 1
6B76 ??		.ds 1
6B77 ?? 6B78 ??		.ds 1
3270 : 1		+

File: E:\Projects\pace\pacedev.ne	et\sw\re
6B79 ??	.ds 1
6B7A ??	.ds 1
6B7B ?? 6B7C ??	.ds 1
6B7C ?? 6B7D ??	.ds 1
6B7E ??	.ds 1
6B7F ?? 6B80 ??	.ds 1
6B81 ??	.ds 1
6B82 ??	.ds 1
6B83 ??	.ds 1
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6B86 ??	.ds 1
6B87 ??	.ds 1
6B88 ?? 6B89 ??	.ds 1
6B8A ??	.ds 1
6B8B ??	.ds 1
6B8C ?? 6B8D ??	.ds 1
6B8E ??	.ds 1
6B8F ??	.ds 1
6B90 ?? 6B91 ??	.ds 1
6B92 ??	.ds 1
6B93 ??	.ds 1
6B94 ?? 6B95 ??	.ds 1
6B96 ??	.ds 1
6B97 ?? 6B98 ??	.ds 1
6B99 ??	.ds 1
6B9A ??	.ds 1
6B9B ?? 6B9C ??	.ds 1
6B9D ??	.ds 1
6B9E ??	.ds 1
6B9F ?? 6BA0 ??	.ds 1
6BA1 ??	.ds 1
6BA2 ??	.ds 1
6BA3 ?? 6BA4 ??	.ds 1
6BA5 ??	.ds 1
6BA6 ??	.ds 1
6BA7 ?? 6BA8 ??	.ds 1
6BA9 ??	.ds 1
6BAA ??	.ds 1
6BAB ?? 6BAC ??	.ds 1
6BAD ??	.ds 1
6BAE ??	.ds 1
6BAF ?? 6BBO ??	.ds 1
6BB1 ??	.ds 1
6BB2 ??	.ds 1
6BB3 ?? 6BB4 ??	.ds 1
6BB5 ??	.ds 1
6BB6 ?? 6BB7 ??	.ds 1
6BB8 ??	.ds 1
6BB9 ??	.ds 1
6BBA ?? 6BBB ??	.ds 1
6BBC ??	.ds 1
6BBD ??	.ds 1
6BBE ?? 6BBF ??	.ds 1
6BC0 ??	.ds 1
6BC1 ??	.ds 1
6BC2 ?? 6BC3 ??	.ds 1
6BC4 ??	.ds 1
6BC5 ?? 6BC6 ??	.ds 1
6BC7 ??	.ds 1
6BC8 ??	.ds 1
6BC9 ?? 6BCA ??	.ds 1
6BCB ??	.ds 1
6BCC ??	.ds 1
6BCD ?? 6BCE ??	.ds 1
6BCF ??	.ds 1
6BD0 ??	.ds 1
6BD1 ?? 6BD2 ??	.ds 1
6BD3 ??	.ds 1
6BD4 ??	.ds 1
6BD5 ?? 6BD6 ??	.ds 1
6BD7 ??	.ds 1
6BD8 ??	.ds 1
6BD9 ?? 6BDA ??	.ds 1
6BDB ??	.ds 1
6BDC ??	.ds 1
6BDD ?? 6BDE ??	.ds 1
6BDF ??	.ds 1
6BE0 ??	.ds 1
6BE1 ?? 6BE2 ??	.ds 1
6BE3 ??	.ds 1
6BE4 ?? 6BE5 ??	.ds 1
6BE6 ??	.ds 1
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6BEA ??	.ds 1
6BEB ??	.ds 1
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.ds 0x78

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