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

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
0038
0038
0038
0038 11 04 00
0038
                                                                                                                                            CODE XREF: animate_kong_and_pauline+F\p animate_kong_and_pauline+65\p ... every 4th byte loop 10 times
                             add_c_sprite_register_x10:
0038 06 0A
003D
003D
003D 79
                                                                      b, #10
                                                        ld
                                                                                                                                          ; CODE XREF: sub_0_30+11|j; 0000:0D9A|p ...
                             loc_0_3D:
003D
003E 86
003F 77
0040 19
                                                                     a, c
a, (hl)
(hl), a
hl, de
                                                        ld
                                                        add
ld
add
                                                                                                                                          ; (HL)+=C
; next byte
0041 10
0043 C9
0044
0044
        10 FA
                                                        djnz
                                                                      loc_0_3D
                                                                                                                                          ; loop
0044
0044 21 27 62
0047 46
                             return_if_level_bit_not_set:
    ld          hl, #level_type
    ld          b, (hl)
                                                                                                                                          ; CODE XREF: sub_0_301j
                                                                                                                                          ; get level type
0048
0048
0048
0049
                             loc_0_48:
                                                                                                                                          ; CODE XREF: sub_0_30+19|j
        0F
10 FD
                                                                                                                                          ; get bit of A for level
; bit set, return
; discard return address
                                                                      loc 0 48
                                                        djnz
004B D8
                                                        ret
004E E1
004D C9
004D
                                                        pop
ret
                                                                      hl
                             ; End of function sub_0_30
004D
004E
004E
004E
                             ; SUBROUTINE
004E
004E
004E 11 08 69
004E
                                                                                                                                            CODE XREF: animate_kong_and_pauline+4D|p animate_kong_and_pauline+77|p ... ptr sprite #2
                             copy_sprites_2_11_data:
                                                        1d
                                                                      de, #soft sprite ram+8
004E
0051 01 28 00
0054 ED B0
0056 C9
                                                                                                                                            10 4-byte sprites to copy
copy 40 bytes of sprite data
                                                        1d
                                                                      bc, #40
                                                        ldir
                                                        ret
                             ; End of function copy_sprites_2_11_data
0056
0056
0056
0057
0057
0057
0057
0057
0057 3A 18 60
                                                       SUBROUTINE
                                                                                                                                          ; CODE XREF: 0000:00B9|p; sub_0_2523+22|p ...
                                                        14
                                                                          (random no)
005A 21 1A 60
005D 86
                                                        ld
add
                                                                     hl, #gen_purpose_timer
a, (hl)
005E
005E
005E
005E 21 19 60
0061 86
0062 32 18 60
0065 C9
0065
                             loc_0_5E:
                                                                     hl, #random_no+1
a, (hl)
                                                        add
                                                                      a, (hl)
(random_no), a
                                                        1d
                             ; End of function rand
0065
0066
0066
0066 F5
0067 C5
0068 D5
0069 E5
                             nmi:
                                                        push
                                                        push
push
push
                                                                      bc
                                                                      de
hl
006A DD E5
006C FD E5
                                                                      ix
iy
                                                        push
                                                        push
xor
ld
006C FD E5
006E AF
006F 32 84 7D
0072 3A 00 7D
0075 E6 01
0077 C2 00 40
007A 21 38 01
007D CD 41 01
0080 3A 07 60
0083 A7
0084 C2 B5 00
0087 3A 26 60
                                                                      a (nmi_mask),
                                                                     ..mu1_mask), a
a, (in2_snd_latch)
#1
                                                                                                                                          ; disable_nmi
                                                        1d
                                                                                                                                             IN2
                                                        and
jp
ld
                                                                                                                                          ; hit 0 set?
                                                                      NZ, 0x4000
                                                                                                                                          ; yes, boom! (not valid code)
                                                                      hl, #dma_reg_tbl
                                                                     dma_sprite_data_to_hw
a, (attract_mode_flag)
                                                        call
                                                                                                                                          ; update sprites
                                                        ld
and
                                                                                                                                          ; in attract mode?
; yes, skip reading inputs
                                                                      a
NZ, loc_0_B5
                                                        jp
ld
and
0084 C2 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
```

rising-edge detect

; bit 7
; add joystick bits
; raw controller input
; joystick and button press

; CODE XREF: 0000:008414

; IRQ resume address

; general purpose timer tick
; randomise

button

; store

; reset input?

cpl and and

rla rla rla

or ld ld ld

ld

bit jp

ld dec call

call call ld

push ld

loc 0 B5:

00A4 E6 10 00A6 17 00A7 17 00A8 17 00A9 B1 00AA 60 00AB 6F 00AC 22 10 60 00AF 78

00B0 CB 77 00B2 C2 00 00

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

00C6 3A 05 60

00B5 00B5

00C5 E5

#0x10

h, b

a, b

h1

6, a NZ, RESET

sub_0_17B update_sounds

hl, #nmi_exit

a, (nmi_sequencer)

(controller_in), hl

hl, #gen_purpose_timer
(hl)
rand

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
00C9 EF
                                                         rst
                                                                                                                                             ; go!
00C9
00CA C3 01
00CC 3C 07
00CE B2 08
                                                          .dw init_machine_settings
.dw chk_credits_and_vector_on_attrac
.dw vector_on_credit_sequencer
                                                                                                                                             ; Jump table (nmi sequencer)
00D0 FE 06
                                                          .dw vector_on_ingame_sequencer
00D2
00D2
00D2
                                                                                                                                            ; DATA XREF: 0000:00C210
                             nmi_exit:
00D2 FD E1
00D4 DD E1
00D6 E1
00D7 D1
                                                                       iy
ix
hl
de
                                                         qoq
                                                         pop
                                                         pop
00D8 C1
00D9 3E 01
00DB 32 84 7D
00DE F1
                                                         pop
ld
ld
                                                                       bc
a, #1
(nmi_mask), a
                                                                                                                                             ; enable_nmi
                                                         pop
ret
                                                                       af
00DE F1
00DF C9
00E0
00E0
                                                         SUBROUTINE
00E0

00E0

00E0

00E0

00E0

00E0 21 80 60

00E3 11 00 7D

00E6 3A 07 60

00E9 A7

00EA C0

00EB 06 08

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

00F6 1C

00F7 2C

00F8 10 F3

00FA 21 8B 60

00FD 7E

00FF A7

00FF C2 08 01

0103 2D

0104 7E

0105 C3 0B 01

0108
                                                         inc
                                                                                                                                               next timer
loop for 8 sounds
                                                         djnz
                                                                       loc_0_ED
                                                                       hl, #unk_0_608B
a, (hl)
                                                         1d
                                                         ld
                                                         and
jp
dec
                                                                       NZ, loc_0_108
                                                         ld
                                                                       a, (hl)
set_bg_sound_music
                                                         jр
0108
0108
0108
0108
0108 35
                                                                                                                                             ; CODE XREF: update_sounds+1F<sup>†</sup> j
                             loc_0_108:
                                                                       (hl)
                                                         dec
0109 2D
010A 7E
010B
010B
                                                         dec
                                                                       a, (hl)
                                                         ld
                                                                                                                                            ; get background sound/music
                                                                                                                                             ; CODE XREF: update_sounds+251j
                             set_bg_sound_music:
010B 010B 32 00 7C 010E 21 88 60 0111 AF 0112 BE 0113 CA 18 01 0116 35 0118 0118 0118 32 80 7D 011B C9 011B C9 011B
                                                         1d
                                                                       (in0), a
hl, #unk_0_6088
                                                                                                                                             ; background sound/music select
                                                         ld
xor
                                                                       a
(hl)
                                                                       Z, loc_0_118
(hl)
                                                         ср
                                                         jp
dec
                                                                                                                                            ; CODE XREF: update_sounds+33↑j; digital sound - dead
                             loc_0_118:
                                                         ld
                                                                       (dsw_audio_irq), a
                                                         ret
; End of function update_sounds
                                                       SUBROUTINE
                             stop_sound:
                                                                                                                                            ; CODE XREF: sub_0_17B+1A|p; 0000:02B5|p ...
011C 06 08
011C
011E AF
011F 21 00 7D
0122 11 80 60
0125
0125
0125 77
                                                         1d
                                                                       b, #8
                                                         xor
ld
                                                                       hl, #in2_snd_latch
                                                                                                                                             ; sound latch
                                                         ld
                                                                       de, #digital_snd_tmr_walk
                                                                                                                                             ; timers
                                                                                                                                            ; CODE XREF: stop_sound+D|j
; kill latch
; kill timer
                             loc_0_125:
                                                                       (hl), a (de), a
                                                         ld
0125 77
0126 12
0127 2C
0128 1C
0129 10 FA
012B 06 04
012D
012D
012D 12
                                                         ld
                                                                       loc_0_125
b, #4
                                                                                                                                            ; write 8 bytes
                                                         djnz
ld
                             loc_0_12D:
                                                                                                                                            ; CODE XREF: stop_sound+13|j
                                                         ld
                                                                       (de), a
012D 12
012E 1C
012F 10 FC
013I 32 80
0134 32 00
0137 C9
0137
0137
0137
0138 53
0138 53
0138 00 69
013B 80 41
013D 00 70
013F 80 81
                                                         djnz
ld
ld
                                                                       loc_0_12D
                                                                                                                                            ; another 4 copies ; audio IRQ
                                                                        (dsw_audio_irq), a
                                                                                                                                             ; background music = NONE
                                                                       (in0), a
                             ret
; End of function stop_sound
                                                                                                                                               DATA XREF: 0000:007A o DMA mode (TC stop, CH0,1) CH0 address
                                                         .db 0x53
                             dma_reg_tbl:
```

.dw soft sprite ram

(p8257_drq), a

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

.dw 0x4180

xor ld

ld

1d

dma_sprite_data_to_hw

0141

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

CH1 Address
CH1 terminal count (WR 0x180 bytes)

; CODE XREF: 0000:007D1p

; deassert DRQ0&1 0x53

; mode set

xor

ld

call ld call ld

call ld

call

; SUBROUTINE SUBROUTINE

0206 0207 0207 C9

0207

(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

; game screen sequencer

; display_score_or_high_score

; display_score_or_high_score

; print message A

```
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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
                                                                                                                                                 ; store
                                                                          hl, #lives_per_game
                                                            ld
and
                                                                                                                                                 ; 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
```

02BD

02BD

02BD 26 60 02BD

02E1 18 DA 02E3 02E3

02E3 02E3 02E3 E6 1F 02E5 5F 02E6 16 00 02E8 36 FF

02EE 2C 02EF 7D 02F0 FE C0

02F2 30 02 02F4 3E C0 02F6 02F6

0305 EB 0306 E9

030B C6 05 030D E9 05 030F 11 06 0311 2A 06

0311 2A 00 0313 B8 06 0315 0315 0315

0328 28 14 032A 3E 10 032C 77 032D 19

032E 032F 0330

033E

0346 0346

0306 0307 1C 05 0307 0309 9B 05

02EA 02EB

02EC 36 FF

```
; CODE XREF: 0000:029A|j
; set to $FF
; next location
                                                                     noc_0_298
a, #0xC0; 'L'
(fg_fn_queue_tail), a
(fg_fn_queue_head), a
                                                                                                                                          ; set 64 bytes
                                                        ld
ld
ld
                                                                                                                                         ; init queue tail ; init queue head
                                                        xor
                                                                     (spritebank), a
(palette_bank), a
(palette_bank+1), a
                                                        ld
ld
                                                                                                                                         ; b0=0
; b1=0
                                                        ld
02AE 3C
02AF 3C 82 7D
02BZ 31 00 6C
02B5 CD 1C 01
                                                        inc
                                                                     (flipscreen), a
                                                        ld
ld
                                                                     sp, #0x6C00
stop_sound
                                                        call
02B8 3E 01
02BA 32 84 7D
02BD
                                                        1d
                                                                     a, #1 (nmi_mask), a
                                                                                                                                         ; enable interrupts
                                                                                                                                         ; CODE XREF: 0000:02D8-i
                            main loop:
                                                                                                                                         ; 0000:02E1|j;
; DATA XREF: ...;
; msb of queue
; ptr head of queue
                                                                     h, #0x60 ; '`'
                                                        ld
02BD 02BF 3A B1 60 02C2 6F 02C3 7E 02C4 87 02C5 30 1C 02C7 CD 15 03 02CA CD 50 03 02CD 21 19 60 02DO 24
                                                                     a, (fg_fn_queue_head)
1, a
a, (hl)
                                                        ld
                                                        ld
ld
                                                                                                                                          ; get queue entry
                                                                                                                                         ; empty?
; no, skip
                                                        add
                                                                     a, a
NC, process_fg_fn_queue
flash_1UP_or_2UP
check_and_award_bonus
hl, #random_no+1
(hl)
                                                        jr
call
call
ld
                                                                                                                                         ; random LSB
02D0 34
02D1 21 83 63
02D4 3A 1A 60
02D7 BE
                                                        inc
ld
ld
                                                                                                                                          ; INC
                                                                     hl, #unk_0_6383
                                                                           (gen_purpose_timer)
                                                                     a, (
(hl)
                                                        cp
jr
ld
call
                                                                                                                                         ; same?
; yes, loop
; generate LSB from timer
02D8 28 E3
02DA 77
02DB CD 7F 03
                                                                     Z, main_loop
(hl), a
sub_0_37F
02DE CD A2 03
                                                                                                                                         ; do something with a sprite
                                                        call
                                                                     sub 0 3A2
                                                                     main_loop
                                                                                                                                         ; 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)
                                                        inc
ld
                                                                                                                                          ; C=param2 (vector fn param)
                                                                     (hl), #0xFF
                                                        ld
                                                                                                                                          ; wipe param2
                                                                     a, 1
#0xC0 ; 'L'
                                                        ld
                                                                                                                                          ; new queue head
                                                        ср
                                                                                                                                             wrap?
                                                                                                                                          ; 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
                                                                     hl, de
e, (hl)
hl
                                                        add
ld
                                                                                                                                          ; entry index
                                                        inc
                                                                     d, (hl)
                                                        14
                                                                                                                                          ; DE=vector address
                                                                     de, hl
                                                                                                                                         ; HL=vector address
; jump
                                                        jр
                                                                                                                                         ; 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
                                                        .dw display_score_or_high_score
.dw print_message_A
.dw display_credits_if_attract_mode
.dw update_bonus_timer
                                                        .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?
                                                        jr
ld
ld
                                                                                                                                          ; yes, skip
                                                                     a, #0x10
(h1), a
h1, de
                                                                                                                                         ; " "
; wipe "1" or "2"
; next column
; wipe "U"
; next column
; wipe "P"
                                                        add
                                                        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
                            loc 0 33E:
                                                                     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
```

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

0350

0350

0350

0350

0350

0350

0350

0355

0354

00

0355

21

83

83

83

00

60

0358

83

00

0358

83

00

0358

83

00

0358

83

00

0358

21

0361

0361

0361

0361

0361

0362

0362

0362

0364

037

0362

0363

0363

0364

0363

0364

0366

0368

0368

0368

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036
                                                                              SUBROUTINE
                                                  check_and_award_bonus:
                                                                                                                                                                                                                                          ; CODE XREF: 0000:02CATp
                                                                                               ld
and
                                                                                                                      a, (awarded_bonus_life)
                                                                                                                                                                                                                                          ; already got bonus life?
                                                                                                ret
                                                                                                                      NZ
                                                                                                                                                                                                                                          ; ves. return
                                                                                                1d
                                                                                                                      hl, #p1_score+1
                                                                                                ld
                                                                                                                      a, (current_player_D)
                                                                                                                      a
Z, loc_0_361
                                                                                                                                                                                                                                          ; player 1?
; yes, skip
                                                                                                and
                                                                                                ir
                                                                                                ĭd
                                                                                                                      hl, #p2_score+1
                                                                                                                                                                                                                                              CODE XREF: check_and_award_bonus+C|j get hundreds from score only thousands
                                                 loc_0_361:
                                                                                                                      a, (hl)
#0xF0; '-'
                                                                                                ld
                                                                                                and
ld
                                                                                                                      b, a
hl
                                                                                                                                                                                                                                               save
next score byte
                                                                                                inc
0365 23
0366 7E
0367 E6 0F
0369 B0
036A 0F
036B 0F
036C 0F
036C 0F
                                                                                               ld
and
                                                                                                                               (hl)
                                                                                                                                                                                                                                              get tens of thousands
only tens of thousands
B = thousands (and tens of)
                                                                                                or
                                                                                                rrca
                                                                                               rrca
rrca
                                                                                                                                                                                                                                          ; swap nibbles
                                                                                                rrca
036D 0F
036E 21 21 60
0371 BE
0372 D8
0373 3E 01
0375 32 2D 62
0378 21 28 62
0378 34
037C C3 B8 06
                                                                                                                      hl, #bonus_setting (hl) C
                                                                                                ld
                                                                                                cp
ret
                                                                                                                                                                                                                                         ; reached bonus score?
; no, return
                                                                                                ld
                                                                                                                      (awarded_bonus_life), a
hl, #lives_left
(hl)
                                                                                                ld
                                                                                                                                                                                                                                          ; flag that we've got the bonus
                                                                                                ld
                                                                                                                                                                                                                                          ; extra life
                                                                                                                      display_lives_and_level
                                                  jp display_lives_a
; End of function check_and_award_bonus
037C
037F
037F
037F
037F
037F
                                                                                             SUBROUTINE
                                                 sub_0_37F:
                                                                                                                                                                                                                                         ; CODE XREF: 0000:02DB1p
037F 21 84 63
0382 7E
0383 34
0384 A7
                                                                                                                     h1, #unk_0_6384
a, (h1)
(h1)
                                                                                                1d
                                                                                               ld
inc
and
0384 A7
0385 C0
0386 21 81
0389 7E
038B 47
038B 34
038C E6 07
038F 78
0390 0F
0391 0F
0392 0F
                                                                                                ret
ld
ld
ld
                                                                                                                      hl, #unk_0_6381
a, (hl)
b, a
                      81 63
                                                                                                                       b, a (hl)
                                                                                                inc
and
ret
                                                                                                1d
                                                                                                                      a, b
                                                                                               rrca
rrca
                                                                                                rrca
                                                                                                                     b, a
a, (level)
a, b
0393 47
0394 3A 29 62
0397 80
0398 FE 05
                                                                                                ld
                                                                                                ld
add
                                                                                                ср
                                                                                                                      C, loc_0_39E
a, #5
039A 38 02
039C 3E 05
039E
039E
                                                                                                                                                                                                                                        ; CODE XREF: sub 0 37F+1B1i
                                                 loc 0 39E:
039E 32 80 63
03A1 C9
03A1
03A1
                                                                                               1d
                                                                                                                      (unk_0_6380), a
                                                                                                ret
                                                 ; End of function sub_0_37F
03A1

03A2

03A2

03A2

03A2

03A2

03A2

03A2

03A4 F7

03A5 D7

03A6 3A 50 63

03A9 0F

03AA D8

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

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

0450

0450 3A 27 62

0453 0F

0454 D2 78 04

0457 0F

0458 DA 86 04

045B 21 0B 69

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

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
0489 4F
0489 4F
048A 11 20 00
048D 3A 27 62
0490 FE 04
0492 CA BE 04
0495 79
0496 A7
0497 CA A1 04
0490 3E EF
                                                                  de, #0x20 ; ' '
a, (level_type)
#4
                                                      ld
                                                      ld
                                                                                                                                    ; rivets?
; yes, skip
; kong_thrash_tmr
                                                      ср
                                                                   Z, display_help_rivets_level
                                                      jp
ld
                                                                   a,
                                                      and
                                                                                                                                       finished?
                                                                   Z, wipe_help
                                                      jp
ld
                                                                                                                                      yes, skip
                                                                   a, #0xEF ;
                                                                                                                                    ; time to display help?
; yes, skip
049C CB 71
049E C2 A3 04
04A1
04A1
                                                      bit
                                                                   NZ, display_or_wipe_help
                                                                                                                                   ; CODE XREF: animate_kong_and_pauline+9Cfj
; blank tiles
                           wipe_help:
04A1 3E 10
04A3
04A3
04A3 21 C4 75
                                                     1d
                                                                   a. #0x10
                                                                                                                                   ; CODE XREF: animate_kong_and_pauline+A3<sup>†</sup>j
; screen position for HELP!
                           display_or_wipe_help:
                                                                   hl, #VRAM start+0x1C4
                                                      ld
04A6 CD 14 05
04A9 3A 05 69
04AC
                                                      call
                                                                  display_3_tiles_HL
a, (soft_sprite_ram+5)
                                                                                                                                    ; display/wipe HELP!
; sprite #1, flipy & code
04AC
04AC 32 05 69
04AC
04AF CB 71
                                                                                                                                    ; CODE XREF: animate kong and pauline+F3 h
                           make_pauline_run:
                                                                                                                                    ; animate_kong_and_pauline+10B ; sprite #1, flipy & code
                                                                   (soft_sprite_ram+5), a
                                                      bit
04B1 C8
                                                      ret
04B2
04B3
                                                      ld
ld
04B4 E6 07
                                                      and
04B4 E6 07
04B6 C0
04B7 78
04B8 EE 03
04BA 32 05 69
04BD C9
                                                      ret
                                                                   NZ.
                                                                  a, b
#3
                                                                                                                                    ; sprite #1, flipy & code
; toggle sprites 0x11/0x12 pauline running
; sprite #1, flipy & code
                                                      ld
                                                      xor
ld
                                                                   (soft_sprite_ram+5), a
                                                     ret
04BE
04BE
                                                                                                                                    ; CODE XREF: animate_kong_and_pauline+97<sup>†</sup>j
                           display_help_rivets_level:
04BE 04BE 3E 10 04C0 21 23 76 04C0 21 23 76 04C6 21 83 75 04C9 CD 14 05 04CC CB 71 04CE CA 09 05 04D1 3A 03 62 04D4 FE 80 04D6 D2 F1 04 04D9 3E DF
04BE
                                                                  a, #0x10
h1, #VRAM_start+0x223
display_3_tiles_HL
h1, #VRAM_start+0x183
                                                     ld
ld
                                                                                                                                   ; blank tiles
; screen pos
                                                      call
                                                      ld
                                                                                                                                   ; screen pos
                                                      call
bit
                                                                   display_3_tiles_HL
                                                                   6, c
Z, loc_0_509
                                                      jp
ld
                                                                        (mario_y_coord)
                                                                                                                                   ; mario left/right side of screen?
; right, skip
; "HELP!" to the left
; screen pos
; display "HELP!"
                                                      cp
jp
ld
                                                                  #UXOU ; 'C'
NC, display_help_right
a, #0xDF;
hl, #VRAM_start+0x223
04D9 3E DF
04DB 21 23 76
04DE CD 14 05
04E1
                                                      14
                                                     call
                                                                   display_3_tiles_HL
04E1
04E1
04E1 3A 01 69
04E4 F6 80
04E6 32 01 69
04E9 3A 05 69
                                                                                                                                    ; CODE XREF: animate_kong_and_pauline+116|j
; sprite #0, flipy & code
; flipy
                           display_pauline_left:
                                                                      (soft_sprite_ram+1)
x80 ; 'Ç'
                                                      or
                                                                   (soft_sprite_ram+1),
                                                      ld
                                                                                                                                    ; save
                                                                                                                                    ; sprite #1, flipy & code
; flipy
                                                      1d
                                                                   a, (soft_sprite_ram+5)
#0x80 ; 'C'
04EC F6 80
04EE C3 AC 04
                                                                   make_pauline_run
                                                      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_coord)
#0x80 ; 'C'
NC, display_pauline_right
                                                     ld
                                                      ср
                                                      αĖ
0511 C3 E1 04
0511
0511
0514
                            jp display pauline left; End of function animate_kong_and_pauline
0514
0514
0514
                                  SUBROUTINE
                           display_3_tiles_HL:
                                                                                                                                      CODE XREF: animate_kong_and_pauline+ABfp
0514
                                                                                                                                       animate_kong_and_pauline+C8<sup>†</sup>p ... 3 tiles
0514
0514 06 03
0514
0516
0516
                                                                  b, #3
                                                                                                                                    ; CODE XREF: display_3_tiles_HL+5|j
                           loc 0 516:
0516 77
0517 19
0518 3D
                                                                                                                                    is store tile
is next row/column
is prev tile
is loop for 3 tiles
                                                      14
                                                                  (hl),
hl, de
                                                      add
                                                      dec
        10 FB
                                                     dinz
                                                                   loc 0 516
051B C9
051B
051B
                           ret
; End of function display_3_tiles_HL
051C
051C
051C
                                  SUBROUTINE
                           add_bonus_and_update_high_score:
                                                                                                                                      CODE XREF: 0000:0698 p
051C 4F
051C
                                                                                                                                    ; 0000:06A5|j
; DATA XREF: ...
051C
                                                      ld
051D CF
051E CD 5F 05
                                                      rst
call
                                                                                                                                    ; return if attract mode
```

current_player_score_DE

hl, #Bonus_Points_Tbl

; 3 bytes of score

a b, #3

ld add

add ld

1d ld add

1d

0521 79 0522 81

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

052C 06 03 052E

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
                        loc_0_52E:
                                                                                                                        CODE XREF: add_bonus_and_update_high_score+18|j
                                                                                                                      ; get score BCD pair
; add bonus BCD pair
; adjust for BCD
; update score BCD pair
052E 1A
                                                ld
052E 1A
052F 8E
0530 27
0531 12
0532 13
0533 23
0534 10 F8
0536 D5
                                                adc
daa
ld
                                                           a, (hl)
                                                            (de), a
                                                inc
                                                           de
hl
                                                                                                                     ; next byte
; loop through score
                                                            loc_0_52E
                                                djnz
                                                push
                                                           de
0537 1B
0538 3A 0D 60
053B CD 6B 05
053E D1
                                                dec
                                                           de
                                                                                                                     ; ptr score
                                                ld
call
                                                           a, (current_player_D)
display_player_A_score
                                                pop
dec
053F 1B
0540 21 BA 60
0543 06 03
0545
                                                           hl, #high_score+2
b, #3
                                                                                                                     ; MSB ; 3 bytes to compare
                                                ld
                                                ld
0545
0545 1A
0546 BE
0547 D8
0548 C2 50 05
054B 1B
054C 2B
                        loc_0_545:
                                                                                                                      ; CODE XREF: add_bonus_and_update_high_score+31\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
ix, #VRAM_start+0x121
0570 28 0A
0572 DD 21 21 75
0576 18 04
                                                jr
                                                           display_score_HL
0578
0578
0578
                                                                                                                        CODE XREF: display_score_or_high_score+17|j
                        display_score_at_hs_location:
0578 DD 21 41 76
                                                           ix, #VRAM_start+0x241
                                                ld
                                                                                                                      ; screen position for score
057C
057C
057C EB
                                                                                                                     ; CODE XREF: display_player_A_score+5↑j; display_player_A_score+B↑j ...
                         display_score_HL:
                                                           de, hl
de, #0xFFE0
bc, #0x304
057C
057D 11 E0 FF
0580 01 04 03
0583
                                                                                                                     ; column address delta
; 3=6 digits
                                                ld
0583
0583 7E
0583
                                                                                                                     ; CODE XREF: display_player_A_score+25|;
; display_credits+11|;
; get bcd digit pair
                        display_B_bcd_digit_pairs:
                                                ld
                                                           a, (hl)
0584 OF
                                                rrca
0585 OF
0586 OF
0587 OF
                                                rrca
rrca
                                                                                                                     ; shift high nibble
                                                rrca
0588 CD 93 05
                                                call
                                                           display_score_digit
058B 7E
058C CD 93 05
058F 2B
0590 10 F1
                                                ld
call
                                                           a, (hl)
display_score_digit
                                                                                                                     ; low nibble
                                                                                                                     ; next digit pair
; loop through 6 digits
                                                           hl
display_B_bcd_digit_pairs
                                                dec
djnz
0592 C9
0592
0592
                        ret; End of function display_player_A_score
0593
0593
0593
0593
                                SUBROUTINE
0593
0593 E6 OF
0593
                                                                                                                        CODE XREF: display_player_A_score+1D^p display_player_A_score+21^p low nibble only
                        display_score_digit:
                                                and
0595 DD 77 00
                                                1d
                                                           0(ix), a
                                                                                                                        display digit
next column
0598 DD 19
059A C9
                                                add
ret
                                                           ix, de
059A
                         ; End of function display score digit
059A
059B
059B
059B
059B
                                             SUBROUTINE
```

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

; zero all scores?

; yes, skip

059B 059B FE 03

059D D2 BD 05

05A0 F5 05A1 21 B2 60

05A5 CA AB 05

059B

05A4 A7

zero_score_or_high_score:

ср

jp push ld

and

NC, loc_0_5BD

hl, #pl_score

Z, loc_0_5AB

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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^jj
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
                                                    jp
05E0
05E0
05E0 3D
05E0
                                                                                                                               ; CODE XREF: display_score_or_high_score+2<sup>†</sup>j
; display_score_or_high_score+21<sup>†</sup>j
                           loc_0_5E0:
05E1 E5
                                                   push
call
                                                                af
                                                                ar
display_score_or_high_score
af
Z
05E1 F3
05E2 CD C6 05
05E5 F1
05E6 C8
                                                   pop
ret
05E7 18 F7
05E7
05E7
05E9
                           jr loc_0_5E0 ; End of function display_score_or_high_score
05E9
                                S U B R O U T I N E
05E9
05E9
                                                                                                                               ; CODE XREF: display_credits+2|p
; display_start_12P_get_selection+18|p
; DATA XREF: ...
05E9
                          print_message_A:
05E9 21 4B 36
05E9
05E9
                                                                hl, #message_table
05EC 87
                                                    add
                                                                <mark>a, a</mark>
af
                                                                                                                               ; convert entry to offset
05EC 87
05ED F5
05EE E6 7F
05F0 5F
05F1 16 00
05F3 19
05F4 5E
05F5 23
                                                   push
and
ld
                                                                 #0x7F ;
                                                                                                                               ; mask off 'wipe' bit
                                                                e, a
d, #0
hl, de
e, (hl)
                                                                                                                               ; DE = offset
                                                    1d
                                                    add
ld
                                                                                                                               ; pointer to entry
                                                    inc
05F6 56
05F7 EB
05F8 5E
05F9 23
                                                   ld
ex
ld
                                                                d, (hl)
de, hl
e, (hl)
                                                                                                                               ; DE = entry (word)
                                                                e,
hl
                                                    inc
                                                                                                                               ; DE = screen address to print
; HL = message text
; screen column address inc value
; DE = text, HL = screen address
05FA 56
05FB 23
05FC 01 E0 FF
05FF EB
                                                   ld
inc
ld
                                                                d, (hl)
                                                                bc, #0xFFE0
                                                    ex
                                                                de, hl
0600
0600
0600 1A
0601 FE
                                                                                                                                  CODE XREF: print_message_A+26|j
                           loc_0_600:
                                                                                                                                  get message character
end of message?
                                                    ld
                                                                a, (de)
#0x3F; '?
       FE 3F
                                                    cp
jp
ld
                                                                                                                                  yes, exit
display character on screen
restore original entry index
0603 CA 26 00
0606 77
0607 F1
                                                                Z, pop_hl_ret(hl), a
                                                                af
NC, loc_0_60C
(hl), #0x10
                                                    pop
0607 F1
0608 30 02
060A 36 10
060C
060C F5
060D 13
060E 09
                                                   jr
ld
                                                                                                                                  not wiping, skip
display space character on screen
                                                                                                                                  CODE XREF: print_message_A+1F1j
                           loc 0 60C:
                                                   push
inc
add
                                                                                                                               ; store original entry index
; next message character
; next screen location
; loop through message
                                                                de
hl, bc
060F 18 EF
                                                    ir
                                                                loc 0 600
060F
060F
0611
0611
0611
                           ; End of function print
                           ; DATA XREF: 0000:030F1o
0611 3A 07 60
0614 0F
0615 D0
                                                                                                                               ; in attract mode?
; no, return
                                                    rrca
                                                                NC
```

SUBROUTINE

print_message_A

display_credits:

1d

call

0616 0616 0616 0616 3E 05

0618 CD E9 05

CODE XREF: display_start_12P_get_selection+1B \mid p 0000:141E \mid p ...

"credit"

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
061B 21 01
                                                                        hl, #no_of_credits
                                                          ld
061B 21 01 60
061E 11 E0 FF
0621 DD 21 BF 74
0625 06 01
0627 C3 83 05
0627
0627
0628
062A
                                                          ld
                                                                        de, #0xFFE0
                                                                                                                                              ; column address delta
                                                          ld
ld
                                                                       ix, #VRAM_start+0xBF
b, #1
display_B_bcd_digit_pairs
                                                                                                                                              ; screen position of credits
; 1=2 digits
                                                          jр
                              ; End of function display_credits
062A
062A 7
062B A 7
062B CA 91 06
062E 3A 8C 63
0631 A7
0632 C2 A8 06
0635 3A B8 63
                                                                                                                                              ; DATA XREF: 0000:0311†o
                             update_bonus_timer:
                                                                       Z, loc_0_691
a, (bonus_timer)
                                                          jp
ld
                                                          and
                                                                                                                                              ; zero?
; no, skip
                                                                       NZ, loc_0_6A8
a, (unk_0_63B8)
                                                          jp
ld
                                                          and
0638 A7
0639 C0
063A 3A B0 62
063D 01 0A 00
                                                          ret
ld
                                                                        NZ
                                                                       a, (unk_0_62B0)
bc, #0xA
                                                          ld
0640
                             loc_0_640:
                                                                                                                                              ; CODE XREF: 0000:0642-j
                                                          sub
                                                          jp
ld
rlca
                                                                       NZ, loc_0_640
                                                                        a, b
                                                          rlca
                                                          rlca
                                                          rlca
rlca
ld
ld
                                                                                                                                              ; set initial bonus timer value
                                                                         (bonus_timer),
                                                                       hl, #bonus_graphic_tiles
de, #VRAM_start+0x65
a, #6
                                                                                                                                              ; screen position for bonus
; 6 columns of tiles to display
                                                          ld
                                                                                                                                              ; CODE XREF: 0000:0664 j
                             loc 0 655:
0655 DD 21 1D 00
0659 01 03 00
065C ED B0
                                                                       ix, #0x1D
bc, #3
                                                                                                                                              column inc
; 3 tiles to display
; display bonus tiles
; next column
                                                          1d
                                                          ld
ldir
065C ED B0
065E DD 19
0660 DD E5
0662 D1
0663 3D
0664 C2 55 06
0667 3A 8C 63
066A
                                                                        ix. de
                                                          add
                                                          push
pop
dec
                                                                        ix
de
                                                                                                                                              ; screen position
                                                                                                                                              ; done?
; no, loop
                                                          jp
ld
                                                                        NZ. loc 0 655
                                                                        a, (bonus_timer)
066A
                             loc 0 66A:
                                                                                                                                              ; CODE XREF: 0000:06B5-1
066A 4F
                                                          ld
066B E6 OF
066D 47
066E 79
                                                          and
ld
                                                                        #0xF
066D 47
066E 79
066F 0F
066F 0F
0670 0F
0671 0F
0673 E6 0F
0673 E 09
0678 3E 03
067A 32 89 06
067B 3E 03
067A 32 89 60
067B 3E 78
067B 3E 78
067B 3E 74
0687 3E 10
0688 9
                                                                                                                                              ; B=low nibble
                                                                        b, a
                                                          1d
                                                                        a, c
                                                          rrca
                                                          rrca
                                                          rrca
and
                                                                                                                                              ; C=high nibble
; skip if more than 9s left
                                                                       NZ, display_bonus_digits
                                                          jp
ld
                                                          ld
ld
ld
ld
                                                                        a, #3
(unk_0_6089), a
a, #0x70; 'p'
(VRAM_start+0x86), a
(VRAM_start+0xA6), a
                                                                                                                                                 purple '0'
                                                                       a, b
b, a
a, #0x10
                                                          add
                                                                                                                                                 2nd digit to 'ascii'
                                                          ld
ld
                                                                                                                                                 store
<space>
0689
0689 32 E6 74
068C 78
068D 32 C6 74
0690 C9
0691
0691
                                                                                                                                              ; CODE XREF: 0000:0675 j
                             display_bonus_digits:
                                                          ld
ld
                                                                                                                                              ; display 1st digit
; restore 2nd digit
; display 2nd digit
                                                                        (VRAM_start+0xE6), a
                                                                        (VRAM_start+0xC6), a
                                                          ld
0691
0691 3A 8C 63
0694 47
0695 E6 0F
                                                                                                                                             ; CODE XREF: 0000:062B11
                             loc_0_691:
                                                          ld
ld
                                                                        a, (bonus_timer)
                                                                       b, a
#0xF
                                                          and
0695 E6 OF
0697 C5
0698 CD 1C 05
0698 C1
069C 78
069D OF
069E OF
                                                          push
call
                                                                        add_bonus_and_update_high_score
                                                          pop
ld
                                                                        bc
a, b
                                                          rrca
rrca
                                                          rrca
                                                          rrca
and
add
06A0 OF
06A1 E6 OF
06A3 C6 OA
06A5 C3 1C O5
06A8
                                                                        add bonus and update high score
                                                          qŗ
06A8
06A8
06A8 D6 01
                                                                                                                                              ; CODE XREF: 0000:0632<sup>†</sup>j
                             loc_0_6A8:
                                                          sub
                                                          jr
ld
ld
                                                                       NZ, loc_0_6B1
hl, #unk_0_63B8
(hl), #1
06AA 20 05
06AC 21 B8 63
06AF 36 01
06B1
06B1
06B1 27
06B2 32 8C 63
06B5 C3 6A 06
                             loc_0_6B1:
                                                                                                                                              ; CODE XREF: 0000:06AA11
                                                          daa
                                                                         (bonus_timer), a
                                                          ld
                                                          jр
                                                                        loc 0 66A
06B8
06B8
06B8
```

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

; CODE XREF: display_lives_and_level+D|j

DATA XREF: ... store number of lives

return if attract mode

; column delta

<space>

; next column

SUBROUTINE

c, a 8 b, #6

de, #0xFFE0

(hl), #0x10 hl, de

 $hl, \#VRAM_start+0x383$

display_lives_and_level:

loc_0_6C2:

ld

rst ld

ld

ld

1d

add

06B8 06B8 06B8 4F

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

06C2 36 10

06C4 19

06B8

06B8

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
    06C5 10 FB
06C7 3A 28
                                                                     djnz
                                                                                     loc_0_6C2
                                                                                                                                                                    ; wipe 6 icons
              3A 28 62
                                                                                           (lives left)
                                                                     ld
                                                                     sub
jp
ld
                                                                                                                                                                    ; HUH???
    06CB CA D7 06
06CE 47
06CF 21 83 77
                                                                                     Z, loc_0_6D7
                                                                                                                                                                   ; number of lives ; screen location
                                                                                    hl, #VRAM_start+0x383
                                                                     ld
    06D2
06D2
06D2 36 FF
                                                                                                                                                                    ; CODE XREF: display_lives_and_level+1D|j
                                     loc_0_6D2:
                                                                                     (hl), #0xFF
hl, de
loc_0_6D2
                                                                     ld
                                                                                                                                                                    ; mario icon
                                                                                                                                                                    ; mario icon
; next screen location
; loop for no. of lives
    06D4 19
                                                                     add
    06D4 19
06D5 10 FB
06D7
06D7
06D7 21 03 75
06DA 36 1C
06DC 21 E3 74
06DF 36 34
06EB 3A 29 62
                                                                     djnz
                                      loc_0_6D7:
                                                                                                                                                                    ; CODE XREF: display_lives_and_level+13<sup>†</sup>j
                                                                                    hl, #VRAM_start+0x103
(hl), #0x1C
hl, #VRAM_start+0xE3
(hl), #0x34; '4'
a, (level)
                                                                     1d
                                                                     ld
ld
                                                                                                                                                                    7 'L'
                                                                     ld
    06DF 36 34
06E1 3A 29 62
06E4 FE 64
06E6 38 05
06E8 3E 63
06EA 32 29 62
06ED
                                                                     ld
                                                                     cp
jr
ld
                                                                                                                                                                    ; too high?
; no, skip
; max out at 99
                                                                                     C, loc_0_6ED
                                                                     ld
                                                                                     (level), a
                                                                                                                                                                    ; adjust
                                     loc 0 6ED:
                                                                                                                                                                    ; CODE XREF: display lives and level+2E<sup>†</sup> j
    06ED 01 0A FF
                                                                     ld
                                                                                    bc. #0xFF0A
    06F0
06F0
06F0 04
                                                                                                                                                                    ; CODE XREF: display_lives_and_level+3A | j
                                      loc_0_6F0:
                                                                                    b
    06F1
                                                                     sub
    06F1 91
06F2 D2 F0 06
06F5 81
06F6 32 A3 74
06F9 78
                                                                     jp
add
ld
                                                                                     NC, loc_0_6F0
                                                                                                                                                                    ; level tens digit
                                                                                     a, c
(VRAM_start+0xA3), a
                                                                     ld
ld
                                                                                                                                                                    ; level units digit
    06FA 32
06FD C9
                                                                                     (VRAM_start+0xC3), a
              32 C3 74
                                                                     ret
                                      ; End of function display_lives_and_level
    06FD
    06FD
06FE
06FE
                                                                                                                                                                    ; DATA XREF: 0000:00D010
    06FE
                                      vector_on_ingame_sequencer:
    06FE 3A
0701 EF
0701
              3A 0A 60
                                                                     1d
                                                                                           (main_sequencer)
                                                                     rst
    0702 86 09
                                                                                                                                                                    ; Jump table
                                                                      .dw cls_and_set_screen_flip
    0704 AB 09
0706 D6 09
0708 FE 09
                                                                      .dw init_ingame_data_p1
.dw loc_0_9D6
                                                                     .dw loc_0_9D6
.dw init_ingame_data_p2
.dw display_p2_screen?
.dw display_p1_screen?
.dw wait_cls___
.dw do_intro_sequence
    0708
070A
070C
070E
0710
0712
0714
0716
             1B 0A
37 0A
63 0A
76 0A
             DA 0B
00 00
91 0C
                                                                     .dw draw_how_high_can_you_get
.dw 0
.dw wait_init_and_draw_level
                                                                     .dw wait_init_and_draw_level
.dw init_mario
.dw gameplay
.dw died_in_gameplay
.dw copy_current_lvl_data_to_Pl
.dw copy_current_lvl_data_to_P2
.dw pl_game_over
.dw p2_game_over
.dw set_flip_and_current_P2
.dw set_flip_and_current_P1
.dw draw_name_registered
.dw do_initials_entry
.dw mario pauline reunion
    0718 3C
071A 7A
071C 7C
071E F2
             44
8F
A1
                   13
13
13
13
13
14
14
    0726 AA
0728 BB
    072E 15 16
0730 6B 19
0732 00 00
0734 00 00
                                                                     .dw mario_pauline_reunion
.dw loc_0_196B
.dw 0
.dw 0
    0736
             00 00
                                                                      .dw
    0736 00 00
0738 00 00
073A 00 00
073C
073C
073C
073C 21 0A
073F 3A 01
                                                                     .dw
                                      ; DATA XREF: 0000:00CCTo
    073C 21 0A 60
073F 3A 01 60
0742 A7
0743 C2 5C 07
0746 7E
0747 EF
                                                                     and
jp
ld
                                                                                                                                                                    ; any credits?
; yes, skip
                                                                                     NZ, inc_nmi_sequencer
                                                                                           (hl)
                                                                                     a, (h
0x28
                                                                                                                                                                    ; go!
    0747 EF
0747 0748 79 07
0748 63 07
074C 3C 12
074E 77 19
0750 7C 12
0752 C3 07
0754 CB 07
0756 4B 08
0758 00 00
                                                                     rst
                                                                     .dw insert_coin_screen
.dw init_attract_mode_and_draw_level
.dw init_mario
                                                                                                                                                                    ; Jump Table (attract sequencer)
                                                                      .dw attract_mode_gameplay
.dw died_in_gameplay
                                                                     .dw cls_and_next_sequence
.dw tis_and_next_sequence
.dw title_screen_flash
.dw title_screen_no_flash
.dw 0
    0756 4B 08
0758 00 00
075A 00 00
    075C
075C
075C
075C
                                                                                                                                                                       CODE XREF: 0000:0743 j
                                      inc_nmi_sequencer
                                                                                     (hl), #0
hl, #nmi_sequencer
              36 00
                                                                     ld
                                                                                                                                                                    ; reset game seguencer
    075E 21 05 60
0761 34
0762 C9
                                                                     ld
inc
                                                                                     (hl)
                                                                                                                                                                    ; inc nmi_sequencer
076.
0763
0763
0763
0763 E7
0764 AF
0765 32 92 63
"68 32 A0 63
"3E 01
"2 27 6f
29 6
                                                                     ret
```

init_attract_mode_and_draw_level: rst

3E 01 32 27 62 32 29 62 32 28 62

0770 32 29 62 0773 32 28 62 0776 C3 92 0C

0779 21 86 7D

077C 36 00

xor ld ld

ld ld

ld ld

jр

1d

insert_coin_screen:

0x20

(unk_0_6392), a (unk_0_63A0), a a, #1 (level_type), a

(level), a (lives_left),

init and draw level

hl, #palette_bank
(hl), #0

; DATA XREF: 0000:074A\u00e1o ; wait for 16-bit countdown

; DATA XREF: 0000:074810

```
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```

```
(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
                                                                    NZ, display_donkey_kong_title
de, #0x31E
queue_fg_vector_fn
de
                                                                                                                                                 loop
                                                                                                                                        ; print_message_1E
0812 13
0813 CD 9F 30
0816 21 CF 39
0819 CD 4E 00
                                                       inc
call
ld
call
                                                                                                                                       ; print_message_1F
                                                                    queue_fg_vector_fn
hl, #dk_thrash_right_spr
                                                                    copy_sprites_2_11_data
081C CD 24 3F
081F 00
0820 21 08 69
                                                       call
nop
ld
                                                                    sub_0_3F24
                                                                    hl, #soft_sprite_ram+8
                                                                                                                                       ; sprite #2, y coord
0823 0E 44
0825 FF
0826 21 0B 69
0829 0E 78
                                                       1d
                                                                    c, #6
0x38
                                                                         #68
                                                       rst
ld
                                                                                                                                       ; add 68 to y coord for 10 sprites ; sprite #2, x coord
                                                                    hl, #soft_sprite_ram+0xB
c, #120
                                                       ld
                                                                    c, #3
082B FF
082C C9
082D
                                                                                                                                       ; add 120 to xs coord for 10 sprites
                                                       rst
082D
                                                                                                                                       ; CODE XREF: 0000:07D01i
082D
                            loc 0 82D:
082D 3A 8B 63
0830 4F
0831 3A 8A 63
0834 3D
0835 32 8A 63
0838 C3 DA 07
                                                       ld
ld
                                                                    a, (title_flash_tmr_2)
                                                                    a, (title_flash_tmr_1)
                                                       ld
                                                                    (title_flash_tmr_1), a loc_0_7DA
                                                       ld
                                                       jр
083B
083B
```

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

085C 23

085D 10 FC

085F 0D

0860 C2 57 08

0863 21 00 69

0866 0E 02

0868
                                                  djnz
dec
                                                               loc_0_85B
                                                                                                                            ; clear 256 bytes
                                                               NZ. loc 0 857
                                                                                                                            ; do 1024 bytes
                                                  jp
ld
                                                              hl, #soft_sprite_ram
c, #2
                                                                                                                            ; 2x192 bytes to clear
                                                                                                                            ; CODE XREF: clear_tiles_and_sprites+lE|j; 192 bytes to clear
0868
                          loc 0 868:
0868 06 C0
086A AF
086B
                                                  1d
                                                              b, #192
                                                  xor
                                                                                                                            ; CODE XREF: clear_tiles_and_sprites+1B| j
; clear soft sprite ram byte
; next address
086B
086B 77
086C 23
086D 10 FC
                          loc_0_86B:
                                                  ld
inc
                                                               (hl), a
                                                  djnz
                                                               loc 0 86B
                                                                                                                            ; clear 192 bytes
086F 0D
086F 0D
0870 C2 68 08
0873 C9
0873
0873
0874
                                                  jp
                                                               NZ, loc_0_868
                                                                                                                            ; clear 384 bytes
                                                  ret
                          ; End of function clear_tiles_and_sprites
                                SUBROUTINE
0874
0874
0874
0874 21 04 74
                                                                                                                            ; CODE XREF: 0000:01C3<sup>p</sup>; 0000:0795<sup>p</sup> ...
                          clear_visible_area_and_sprites:
0874
0877 0E 20
0879
0879
                                                              hl, #VRAM_start+4
                                                  ld
                                                                                                                            ; 32 columns
                          loc 0 879:
                                                                                                                              CODE XREF: clear visible area and sprites+12+j
                                                              b, #28
a, #0x10
de, #4
0879 06 1C
                                                  ld
                                                                                                                              28 rows
                                                                                                                              <space>
bottm-to-top next column increment
087B 3E 10
087D 11 04 00
0880
                                                                                                                              CODE XREF: clear_visible_area_and_sprites+E|j display space character next line . . .
0880
0880 77
0881 23
                          loc_0_880:
                                                  ld
                                                               (hl), a
                                                                                                                           , next line
; loop screen height
; next column
; done all columns?
; no, loop
0882 10 FC
0884 19
0885 0D
0886 C2 79 08
                                                               loc 0 880
                                                  djnz
                                                  add
dec
                                                               hl, de
                                                               NZ, loc_0_879
                                                  jp
ld
0889 21 22 75
088C 11 20 00
088F 0E 02
0891 3E 10
                                                              h1, #VRAM_start+0x122
de, #32
c, #2
                                                  ld
ld
ld
                                                               a, #0x10
                                                                                                                            ; <space>
0893
0893
0893 06 0E
                          loc_0_893:
                                                                                                                            ; CODE XREF: clear_visible_area_and_sprites+29\mid j ; 14 columns
                                                              b, #14
                                                  ld
                                                                                                                           ; CODE XREF: clear_visible_area_and_sprites+23|; display space character; next column; loop for 14 columns
0895
0895
0895 77
0896 19
                          loc_0_895:
                                                              (h1), a
h1, de
loc_0_895
                                                  ld
add
0896 19
0897 10 FC
0899 21 23 75
089C 0D
089D C2 93 08
08A0 21 00 69
08A3 06 00
08A5 3E 00
08A7
                                                  djnz
                                                  ld
dec
                                                               hl, #VRAM_start+0x123
                                                              NZ, loc_0_893
hl, #soft_sprite_ram
                                                                                                                            ; repeat at new location
                                                  jp
ld
                                                  ld
ld
                                                                                                                            ; 256 bytes to clear ; clear to 0x00
                                                                                                                            ; CODE XREF: clear_visible_area_and_sprites+35|;
; clear soft sprite ram byte
; next location
; do 256 bytes
08A7
08A7 77
08A8 23
08A9 10 FC
                          loc 0 8A7:
                                                  ld
                                                               (hl), a
                                                               loc_0_8A7
                                                  dinz
08AB 06 80
08AD
08AD
                                                              b, #128
                                                                                                                            ; 128 bytes to clear
                                                                                                                              CODE XREF: clear_visible_area_and_sprites+3B|j clear soft sprite ram byte
                          loc_0_8AD:
                                                               (hl), a
08AD 77
                                                  1d
                                                                                                                            ; next location
; clear 128 bytes
08AE 23
08AF 10 FC
08B1 C9
                                                  djnz
                                                               loc_0_8AD
                                                  ret
                          ; End of function clear_visible_area_and_sprites
08B1
08B1
08B2
08B2
                                                                                                                            ; DATA XREF: 0000:00CE1o
08B2
                          vector_on_credit_sequencer:
08B2 3A 0A 60
08B5 EF
                                                              a, (main_sequencer)
0x28
                                                                                                                            ; go!
08B5
                                                  .dw loc_0_8BA
.dw display_start_12P_init_???
08B6 BA 08
                                                                                                                            ; jump table
08B8 F8 08
08BA
08BA
08BA
                          loc_0_8BA:
                                                                                                                            ; DATA XREF: 0000:08B61o
```

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
08BA CD 74 08
                                                     call
                                                                 clear_visible_area_and_sprites
08BD AF
08BE 32 07 60
08C1 11 0C 03
08C4 CD 9F 30
08C7 21 0A 60
08BD AF
                                                     xor
                                                    ld
ld
call
                                                                 (attract_mode_flag), a de, #0x30C queue_fg_vector_fn
                                                                                                                                 ; clear attract mode flag
; print_message_0C
08C4 CD 9F 30
08C7 21 0A 60
08CA 34
08CB CD 65 09
08CE AF
08CF 21 86 7D
08D2 77
08D3 2C
08D4 77
                                                     ld
inc
                                                                 hl, #main_sequencer (hl)
                                                     call
                                                                 queue_hs_table_for_display
                                                     xor
                                                                 a
hl, #palette_bank
(hl), a
                                                     1d
                                                     ld
                                                     inc
ld
                                                                 (hl), a
                                                                                                                                 ; palette bank 0
08D5
08D5
08D5
                                                    SUBROUTINE
08D5
08D5

08D5

08D5

08D5

06 04

08D7 1E 09

08D9 3A 01 60

08DC FE 01

08DE CA E4 08

08E1 06 0C

08E3 1C
                          ; CODE XREF: 0000:08F8 p
                                                                 b, #4
e, #return_if_attract_mode+1
                                                                                                                                 ; "ONLY 1 PLAYER BUTTON"
                                                     ld
                                                                      (no_of_credits)
                                                     cp
jp
ld
                                                                  Z, loc_0_8E4
                                                                                                                                 ; mask for START1/START2
; "1 or 2 PLAYERS"
                                                                 b, #0xC
                                                     inc
08E3 1C

08E4

08E4

08E4 3A 1A 60

08E7 E6 07

08E9 C2 F3 08

08EC 7B

08ED CD E9 05
                                                                                                                                 ; CODE XREF: display_start_12P_get_selection+9<sup>†</sup>j
                           loc_0_8E4:
                                                                 a, (gen_purpose_timer)
#7
                                                     ld
                                                     and
                                                     jp
ld
                                                                 NZ, loc_0_8F3
                                                                                                                                 ; message 9/10
; display
                                                                 print_message_A
                                                     call
08F0 CD 16 06
08F3
08F3
08F3 3A 00 7D
                                                     call
                                                                 display_credits
                           loc_0_8F3:
                                                                                                                                 ; CODE XREF: display_start_12P_get_selection+14^j
                                                    ld
                                                                 a, (in2_snd_latch)
                                                                                                                                 ; read IN2
08F6 A0
08F7 C9
08F7
08F7
                                                                                                                                 ; only START1/START2
                                                     and
                                                     ret
                           ; End of function display_start_12P_get_selection
08F8
08F8
08F8
                           display_start_12P_init_???
                                                                                                                                 ; DATA XREF: 0000:08B810
                                                                 display_start_12P_get_selection
08F8 CD D5 08
08F8 CD D5 08
08FB FE 04
08FD CA 06 09
0900 FE 08
0902 CA 19 09
0905 C9
0906
0906
0906
0906 CD 77 09
0909 21 48 60
0900 06 08
                                                     call
                                                                 #4
Z, start_1_selected
                                                                                                                                 ; START1?
; yes, skip
; START2?
                                                     ср
                                                     jр
                                                    cp
jp
ret
                                                                 Z, start_2_selected
                                                                                                                                 ; yes, skip
                           start_1_selected:
                                                                                                                                 ; CODE XREF: 0000:08FD1 i
                                                    call
                                                                  dec_credits_and_???
                                                     ld
                                                                 hl, #p2_level_data
b, #8
090C 06
090E AF
090F
090F
                                                     1d
                                                                                                                                 ; CODE XREF: 0000:0911 j
loc_0_90F:
                                                    ld
                                                                  (hl), a
                                                     djnz
                                                                  loc_0_90F
                                                     ld
                                                                 hl, #0
loc_0_938
                                                     jp
                                                                                                                                 ; CODE XREF: 0000:09021j
                           start_2_selected:
                                                    call
call
ld
                                                                 dec_credits_and_???
                                                                 dec_credits_and_???
dec_credits_and_???
de, #p2_level_data
a, (lives_per_game)
                                                                 a, (live (de), a
                                                     ld
                                                    ld
inc
ld
                                                                 e
hl, #0x95E
0927 21 5E 09
092A 01 07 00
092D ED BO
092F 11 01 01
0932 CD 9F 30
0935 21 00 01
0938
0938
0938 22 0E 60
093B CD 74 08
093E 11 40 60
0941 3A 20 60
                                                     1d
                                                                 bc, #7
                                                    ldir
ld
call
                                                                 de, #0x101
                                                                                                                                 ; zero_score_or_high_score
                                                                 queue fg vector fn
                                                     ld
                                                                 hl, #0x100
                                                                                                                                 ; players=2, current_player=1
                                                                                                                                 ; CODE XREF: 0000:0916<sup>†</sup>j
                           loc_0_938:
                                                                  (current player E), hl
                                                     ld
                                                                                                                                 ; players and current player
                                                    call
ld
ld
                                                                 clear_visible_area_and_sprites
de, #pl_level_data
a, (lives_per_game)
                                                                 a, (live (de), a
0944 12
                                                     ld
0944 12
0945 1C
0946 21 5E 09
0949 01 07 00
094C ED BO
094E 11 00 01
0951 CD 9F 30
0954 AF
                                                     inc
ld
                                                                 e
hl, #game_init_data
                                                                                                                                 ; 7 bytes
                                                     ld
ldir
                                                                 bc, #7
                                                    ld
call
                                                                 de #0x100
                                                                                                                                 ; zero_score_or_high_score
                                                                 queue_fg_vector_fn
0954 AF
0955 32 0A 60
0958 3E 03
095A 32 05 60
095D C9
                                                     xor
                                                     1d
                                                                  (main_sequencer), a
                                                     ld
ld
                                                                 a, #3
(nmi_sequencer), a
                                                     ret
095D
095D
095E 01
                                                                                                                                 ; DATA XREF: 0000:0946†o
; Start of game level init data
                           game_init_data: .db 1
                                                    .dw level_seq_1 .db 1, 0, 0, 0
095F 65 3A
0961 01 00 00 00
0965
0965
```

CODE XREF: 0000:078B1p

; next msg
; loop through messages

; display_credits_if_attract_mode

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

; CODE XREF: queue_hs_table_for_display+F|j

0000:08CB1p

SUBROUTINE

de. #0x400

loc_0_970

queue_fg_vector_fn
de, #0x314
b, #6

queue_fg_vector_fn

queue_hs_table_for_display:

loc_0_970:

1d

ld

call ld

call

djnz

0965 0965 0965 0965 0965 11 00 04

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

0970 0970 CD 9F 30

0973 1C 0974 10 FA

0965

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
0976 C9
                                ; End of function queue_hs_table_for_display
0976
0977
0977
0977
0977
0977
0977 21 01 60
0976
                                                SUBROUTINE
                                                                                                                                                        ; CODE XREF: 0000:0906†p; 0000:0919†p ...
                                dec_credits_and_???:
                                                              ld
                                                                            hl, #no_of_credits
0977
097A 3E 99
097C 86
097D 27
097E 77
097F 11 00 04
0982 CD 9F 30
0985 C9
                                                              ld
add
                                                                            a, #0x99;
a, (hl)
                                                                                                                                                        ; decrement credits
                                                              daa
                                                                            (hl), a
de, #0x400
queue_fg_vector_fn
                                                              ld
                                                                                                                                                        ; display_credits_if_attract_mode
                                                              call
0985 C9
0985
0986
0986
0986 CD 52 08
0988 D1 C0 01
0987 3E 01
0991 12
0992 21 0A 60
0995 3A 0E 60
0998 A7
0999 C2 9F 09
0996 C9
0997 G6 01
0997 C9
0997 O997 O997 O997
                                                              ret
                                ; End of function dec_credits_and_???
                                ; DATA XREF: 0000:0702 o
                                                                             clear_tiles_and_sprites
                                                                            clear_tiles_and_sprit
stop_sound
de, #flipscreen
a, #1
(de), a
hl, #main_sequencer
a, (current_player_E)
a
NZ, loc_0_99F
(hl), #1
                                                              call
                                                              ld
                                                              ld
ld
                                                                                                                                                        ; default flipscreen
                                                              ld
                                                              ld
                                                                                                                                                        ; player 2?
; yes, skip
; ingame sequencer = 1
                                                              jp
ld
                                                              ret
                                                                                                                                                        ; CODE XREF: 0000:09991j
                                loc 0 99F:
099F 099F 3A 26 60 09A2 3D 09A3 CA A8 09 09A6 AF 09A7 12 09A8 09A8 09A8
                                                              ld
dec
jp
                                                                                                                                                          get cabinet type
upright?
yes, skip
disable flipscreen
                                                                             a, (upright)
                                                                             Z, loc_0_9A8
                                                              xor
                                                              1d
                                                                             (de), a
                                                                                                                                                        ; to hardware
                                                                                                                                                        ; CODE XREF: 0000:09A3<sup>†</sup>j; ingame sequencer = 3
                                loc 0 9A8:
09A8 36 03
09AA C9
09AB
                                                              ld
                                                                             (hl), #3
09AB

09AB

09AB 21 40 60

09AE 11 28 62

09B1 01 08 00

09B4 ED B0

09B6 2A 2A 62

09B9 3Z 27 62

09B0 3A 0F 60

09C0 A7

09C1 21 09 60

09C4 11 0A 60

09C7 CA DO 09

09CA 36 78

09CC EB

09CD 36 02

09CF C9

09D0

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

; init 8-bit countdown ; next sequence (4)

; DATA XREF: 0000:070A o

ld ld

ld

ld

display_p2_screen?:

0A1B

(main_sequencer), a

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
  OA1B AF
 0A1C 32 86 7D
0A1F 32 87 7D
0A22 11 03 03
0A25 CD 9F 30
                                                                                                                                                                          (palette_bank), a
(palette_bank+1), a
de, #0x303
queue_fg_vector_fn
                                                                                                                                         ld
                                                                                                                                        ld
ld
call
                                                                                                                                                                                                                                                                                                                                             ; palette bank 0
; display_message_03
UA25 CD 9F 30

0A28 11 01 02

0A2B CD 9F 30

0A2E CD EE 09

0A31 3E 05

0A33 32 0A 60

0A36 C9

0A37

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

0A63

0A63

0A63

0A63

0A63

0A64

0A67

0A64

0A67

0A62

0A60

0A71

0A71

0A72

0A73

0A73

0A73

0A73

0A73

0A74

0A75

0A76

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

0A79 EF

0A79 BF

0A7A 8A 0A

0A7C BF 0A

0A66 69 30

0A82 06 08

0A84 69 30

0A86 68 0B

0A88 B3 0B

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

0A8A AF

0A8B 32 86 7D

0A8E 3C

0A8F 32 87 7D

0A92 11 0D 38

0A95 CD A7 0D
                                                                       draw_climb_screen:
                                                                                                                                                                                                                                                                                                                                             ; DATA XREF: 0000:0A7A10
                                                                                                                                        xor
ld
                                                                                                                                                                          (palette_bank), a
                                                                                                                                          inc
                                                                                                                                         ld
ld
                                                                                                                                                                         (palette_bank+1), a
de, #draw_data_climb
draw_level_background
                                                                                                                                                                                                                                                                                                                                              ; palette bank 2
                                                                                                                                                                                                                                                                                                                                             ; get address of ???
; <space>
                                                                                                                                         call
0A95 CD A7 0D
0A98 3E 10
0A9A 32 A3 76
0A9D 32 63 76
0AA0 3E D4
0AA0 3E D4
0AA0 3E D4
0AA0 3E D4
0AA0 3E AF 62
0AA6 3E AF 62
0AB6 3E AF 62
0AB
                                                                                                                                        ld
ld
ld
                                                                                                                                                                          a, #0x10
(VRAM_start+0x2A3), a
(VRAM_start+0x263), a
a, #0xD4 ; 'È'
                                                                                                                                                                                                                                                                                                                                            ; half ladder, half girder
                                                                                                                                         ld
                                                                                                                                        ld
xor
ld
                                                                                                                                                                           (VRAM_start+0x1AA), a
                                                                                                                                                                           (unk_0_62AF), a
                                                                                                                                                                        (unk_U_b2AH'), a
hl, #dk_intro_jump_up_data
(unk_U_63c2), hl
hl, #dk_intro_jump_across_data
(unk_U_63c4), hl
a, #0x40; '@'
                                                                                                                                         ld
                                                                                                                                         ld
ld
                                                                                                                                         ld
ld
                                                                                                                                                                         (a., #0x40 ; '@'
a, #0x40 ; '@'
(eight_bit_countdown), a
hl, #intro_sequencer
(hl)
                                                                                                                                         ld
ld
                                                                                                                                         inc
 OABE C9
OABF
OABF
                                                                                                                                         ret
                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: 0000:0A7C\u00f30
                                                                       loc 0 ABF:
0x18
hl, #kong_climbing_spr
copy_sprites_2_l1_data
hl, #soft_sprite_ram+8
c, #48
0x38
                                                                                                                                        rst
ld
call
ld
                                                                                                                                                                                                                                                                                                                                              ; wait for 8-bit countdown
                                                                                                                                                                                                                                                                                                                                             ; sprite #2, y coord
                                                                                                                                        ld
rst
ld
                                                                                                                                                                                                                                                                                                                                             ; add 48 to y coord for 10 sprites ; sprite #2, x coord
                                                                                                                                                                         hl, #soft_sprite_ram+0xB
                                                                                                                                                                          c, #153
0x38
a, #0x1F
                                                                                                                                         ld
                                                                                                                                         rst
ld
                                                                                                                                                                                                                                                                                                                                              ; add 153 to \boldsymbol{x} coord for 10 sprites
```

(unk_0_638E), a

(soft_sprite_ram+0xC), a
hl, #unk_0_608A
(hl), #1

(h1), #3 h1, #intro_sequencer (h1)

; sprite #3, y coord

ld xor

ld ld

ld inc

ld ld

OAD7 AF

OAD8 32 OC 69

OADB 21 8A 60

OADE 36 O1

OAE0 23

OAE1 36 O3

OAE3 21 85 63

0AE6 34 0AE7 C9

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

0B2A ED B0

0B2C 21 08 69

0B2F 0E 50

0B31 FF

0B32 21 0B 69

0B35 0E FC

0B37 FF

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

0B8E 32 82 60

0B91 21 DC 38

0B94 3A 8D 63

0B97 3D

0B98 07

0B99 07

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

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
0BB3 21 8A 60
                                                          hl, #unk_0_608A
                                               ld
0BB6 3A 09 60
0BB9 FE 90
0BBB 20 0B
0BBD 36 0F
                                               ld
                                                           a, (eight_bit_countdown)
#0x90 ; 'É'
                                               cp
jr
ld
                                                           NZ, loc_0_BC8 (hl), #0xF
                                                          (h1), #3
h1, #soft_sprite_ram+0x19
(h1)
0BBF
                                               inc
0BC0 36 03
0BC2 21 19 69
0BC5 34
                                               ld
ld
                                               inc
```

loc 0 BD1

0x18

(h1)

#0x18
NZ, loc_0_BD1
hl, #soft_sprite_ram+0x19
(hl)

a
(intro_sequencer), a

d, #6
a, (mario_alive_flag)
e, a

(h1), #3 h1, #umk_0_63A7 (h1), #0 h1, #VRAM_start+0x2DC (unk_0_63A8), h1 a, (unk_0_622E) #6 C, loc_0_C11 a, #5

(unk_0_622E), a

a, (unk_0_622F) b, a a, (seq_data)

hl, #unk_0_622E (hl)

a, (unk_0_622E) b, a

c, #0x50 ; 'P'

(hl), c

(hl), c

(hl), c hl

(hl), c

a, c #0x67 ; 'g Z, loc_0_C43

de, #0x23 ; '#' h1, de loc_0_C2B

a, (unk 0 63A7)

(unk_0_63A7), a

ix, (unk_0_63A8)

c, a b, #0 hl, bc a, (hl) 0x60(ix), a

0x60(ix), a hl a, (hl) 0x40(ix), a hl a, (hl)

a, (hl) 0x20(ix), a

hl, #draw data how high

hl

hl, #VRAM_start+0x1BC

Z, loc_0_C1F hl, #upl-

queue_fg_vector_fn hl, #palette_bank (hl), #1

(hl), #0 h1, #unk_0_608A (h1), #2

hl (hl), #3

clear_visible_area_and_sprites

jr

cp jr ld

dec nop

rst xor ld

inc

ret

draw_how_high_can_you_get:
 call stop_sound

rst call

ld ld call ld

1d inc ld ld

ld inc

ld ld ld ld

cp jr ld

1d

ld

ld ld cp

jr ld

14 ld

ld

ld

ld

inc

dec ld

inc

ld inc dec

ld

ld

jp inc

ld add jр

ld

inc ld dec

sla sla push ld

push ld ld

ld

add

ld ld

inc ld

ld 1d

bc

loc_0_C11:

loc_0_C1F:

loc_0_C29:

loc_0_C2B:

loc_0_C43:

loc_0_BC8:

loc_0_BD1:

OBC6 18 09

UBC8

0BC8 FE 18

0BCA 20 05

0BCC 21 19 69

0BCF 35

0BD0 00

0BD1

0BD1

0BD1

OBD1 DF OBD1 OBD2 AF OBD3 32 85 63 OBD6 34 OBD7 23 OBD8 34

OBDA OBDA OBDA CD 1C 01

OBDA CD 1C 01
OBDD CD 1C
OBDE CD 74 08
OBE1 16 06
OBE3 3A 0 62
OBE6 5F 0BE7 CD 9F 30
OBEA 21 86 70
OBED 36 01
OBEF 23
OBF0 36 00
OBF2 21 8A 60
OBF5 36 02
OBF7 23
OBF8 36 03
OBFA 21 A7 63
OBFB 36 03
OBFB 21 DC 76
OC02 22 A8 63
OC5 3A 22 62
OC08 FE 06
CC0A 38 05
OC0C 3E 05
CC0C 3E 05

0C0C 3E 05 0C0E 32 2E 62 0C11 0C11 0C11 3A 2F 62 0C14 47 0C15 3A 2A 62 0C18 B8 0C19 28 04 0C1B 21 2E 62 0C1E 34

0C1E 21 2E 62 0C1E 34 0C1F 0C1F 32 2F 62 0C22 3A 2E 62 0C25 47

0C26 21 BC 75

0C29 0C29 0C29 0C29 0E 50

0C2B 0C2B 0C2B 71 0C2C 0C

0C2C 0C 0C2D 2B 0C2E 7C 0C30 2B 0C31 71 0C32 0C 0C33 2B 0C34 71 0C35 79

0C34 71 0C35 79 0C36 FE 67 0C38 CA 43 0C 0C3B 0C 0C3C 11 23 00 0C3F 19 0C40 C3 2B 0C

0C43 0C43 0C43 0C43 0C43 3A A7 63

3C 32 A7 63 3D

0C4A 3D
0C4B CB 27
0C4D CB 27
0C4F E5
0C50 21 F0 3C
0C53 C5
0C54 DD 2A A8 63
0C58 4F
0C59 06 00

0C5C 7E 0C5D DD 77 60

0C61 7E 0C62 DD 77 40 0C65 23 0C66 7E

0C67 DD 77 20

0C5B 09

0060 23 7E

0BD1 DF

0BD9 C9

ORDA

0BC8 0BC8 0BC8

```
; sprite #6, flipy & code
; CODE XREF: 0000:0BBB<sup>†</sup>j
; sprite #6, flipy & code
; CODE XREF: 0000:0BC6<sup>†</sup>j; 0000:0BCA<sup>†</sup>j
; wait for 8-bit countdown
; DATA XREF: 0000:0712<sup>†</sup>o
; wait for 8-bit countdown
; display_lives_and_level
; CODE XREF: 0000:0C0Afj
; CODE XREF: 0000:0C191j
; CODE XREF: 0000:0C7F|j
; CODE XREF: 0000:0C40-j
; CODE XREF: 0000:0C38†j
                                                                                    Page: 20
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
0C6A DD 36 E0 8B
                                                                        0xE0(ix), #0x8B; 'i'
                                                          ld
                                                          pop
push
pop
ld
0C6E C1
                                                                        bc
0C6F DD E5
0C71 E1
0C72 11 FC FF
0C75 19
                                                                        ix
hl
de, #0xFFFC
                                                          add
                                                                        hl,
                                                                               de
                                                          ld
pop
ld
0C76
        22 A8 63
                                                                         (unk_0_63A8), hl
0C70 22 A0 03
0C79 E1
0C7A 11 5F FF
                                                                        de, #0xFF5F
0C7D 19
                                                          add
                                                                        hl, de
0C7E 05
0C7F C2 29 0C
0C82 11 07 03
                                                          dec
jp
ld
                                                                                                                                              ; display_message_07
                                                                        de, #0x307
0C85 CD 9F 30
0C88 21 09 60
0C8B 36 A0
0C8D 23
                                                          call
ld
ld
                                                                        queue_fg_vector_fn
hl, #eight_bit_countdown
(hl), #0xA0 ; 'á'
                                                          inc
0C8D 23
0C8E 34
0C8F 34
0C90 C9
0C91
0C91
0C91
0C91 DF
                                                          inc
                                                                         (hl)
                                                          ret
                              wait_init_and_draw_level:
                                                                                                                                               ; DATA XREF: 0000:0716 o ; wait for 8-bit countdown
                                                          rst
0C92

0C92 CD 74 08

0C95 AF

0C96 32 8C 63

0C99 11 01 05

0C9C CD 9F 30

0C9F 21 86 7D

0CA2 23 00

0CA4 23

0CA5 36 01

0CA7 3A 27 62

0CAA 9CA
                              init_and_draw_level:
                                                                                                                                               ; CODE XREF: 0000:0776<sup>†</sup> †
                                                                        clear_visible_area_and_sprites
                                                          xor
                                                                         (bonus_timer), a
                                                                                                                                               ; init bonus timer
; update_bonus_timer
                                                          14
```

de, #0x501 queue_fg_vector_fn hl, #palette_bank (hl), #0

a, (level_type)

(unk 0 6089), a

a, (level_type) #4

loc_0_3FA0

draw rivets

draw_level_tilemap

(unk_0_6089),

draw level tilemap

draw_level_tilemap

b, #8 hl, #rivet_loc_tbl

a, #0xB8 ; '©

(hl)

d, (hl)

(de), a

NZ, loc 0 D0D

loc_0_D05

.dw VRAM start+0x2CF

.dw VRAM_start+0x2D4 .dw VRAM_start+0x2D9

.dw VRAM_start+0x12A .dw VRAM_start+0x12F

hl

SUBROUTINE

draw_level_background

a Z, draw_barrel_level

Z, draw_cement_pie_level

de, #rivet_level_tilemap_data

de, #barrel_level_tilemap_data
a, #8
(unk_0_6089), a

de, #cement_pie_level_tilemap_data
hl, #palette_bank
(hl), #1

sub_0_D27
a, #0xA
(unk_0_6089), a
de, #elevator_level_tilemap_data

Z, draw_elevator_level sub_0_D43 hl, #palette_bank (hl), #1 a, #0x8

; select palette bank 2

; select palette bank 3

; CODE XREF: 0000:0CDC/j ; 0000:0CEF | j ...

; CODE XREF: 0000:0CAB[†] i

; CODE XREF: 0000:0CAF^i

; CODE XREF: 0000:0CB31j

CODE XREF: 0000:0CCE↑p

; CODE XREF: draw_rivets+14|j
; top of rivet tile
; 2 tiles/rivet (vertical)

CODE XREF: draw_rivets+11|j

; get VRAM location

draw rivet tile
next rivet tile
next VRAM location

; loop through 8 rivets

; DATA XREF: draw_rivets+2\u00f10

; Rivets level, location of rivets

done a rivet?

; 8 rivets

; draw screen

; rivets? ; yes, call

; barrel level?
; yes, skip
; cement pie level?
; yes, skip
; elevator level?
; yes, skip

(hl),

ld call ld ld inc ld

1d

dec jp dec

jp dec jp call

ld ld

ld

14

call

ld.

ср call

jp

ld

jр

ld ld inc

ld ld

ld

jp

call ld ld ld

jp

ld ld

ld

ld ld

inc ld

inc

1d

dec inc dec

jр djnz

ret ; End of function draw_rivets

rivet_loc_tbl: .dw VRAM_start+0x2CA

hl (hl), #0 a, #9

draw_level_tilemap:

draw_barrel_level:

draw_cement_pie_level:

draw elevator level:

draw_rivets:

loc_0_D05:

loc_0_D0D:

0CAA 3D 0CAB CA D4 0C 0CAE 3D 0CAF CA DF 0C

OCAF CA DF OC
OCB2 3D
OCB3 CA F2 OC
OCB6 CD 43 OD
OCB9 21 86 7D
OCBC 36 O1
OCBE 3E OB
OCCO 32 89 60
OCC3 11 8B 3C

0CC6 0CC6 0CC6 CD A7 0D

OCC6 CD A7 OD
OCC6
OCC9 3A 27 62
OCCC FE 04
OCCE CC 00 OD
OCD1 C3 A0 3F
OCD4
OCD4

OCD4 OCD4 11 E4 3A OCD7 3E 08 OCD9 32 89 60

0CDC C3 C6 0C 0CDF 0CDF

OCDF 11 5D 3B OCE2 21 86 7D OCE5 36 01 OCE7 23

OCEA 36 00 OCEA 3E 09 OCEC 32 89 60

OCEF C3 C6 OC OCF2 OCF2 OCF2

OCF2 CD 27 OD OCF5 3E OA OCF7 32 89 60 OCFA 11 E5 3B

OCFD C3 C6 OC

0D00 0D00 0D00 0D00 06 08 0D02 21 17 0D 0D05 0D05 3E B8 0D07 0F 02

0E 02 5E 23 56

0D11 C2 0D 0D 0D14 10 EF 0D16 C9

0D00 0D00

0D00

0D07

0D07 0D09 0D0A 0D0B

0D0C 23 0D0D 0D0D

0D0D 12

ODOE ODOF OD10 3D 13 0D

0D16 0D16 0D16 0D17 CA 76

0D17 0D19 CF 76

0D1B D4 76 0D1D D9 76

0D1F 2A 75 0D21 2F 75

0CDF

```
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```

```
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OD23 34 75 .dw VRAM_start+0x134
```

```
0D23 34 75
0D25 39 75
0D25 39 75

0D27

0D27

0D27

0D27

0D27

0D27

0D27 21 0D 77

0D2A CD 30 0D

0D2D 21 0D 76
                                                                                            .dw VRAM start+0x139
                                                                                           SUBROUTINE
                                               sub_0_D27:
                                                                                                                                                                                                                                ; CODE XREF: 0000:0CF21p
                                                                                                                  hl, #VRAM_start+0x30D
                                                                                           call
ld
                                                                                                                  sub_0_D30
                                               ונע_ט טנע ט ld hl, #VRAM_start+0x20D ; End of function sub_0_D27
 0D2D
0D2D
0D30
0D30
0D30
0D30
0D30
                                                                                         S U B R O U T I N E
                                               sub 0 D30:
                                                                                                                                                                                                                                ; CODE XREF: sub 0 D27+31p
0D30

0D30 06 11

0D32

0D32 06 FD

0D34 23

0D35 10 FB

0D37 11 0F 00

0D34 19
                                                                                           ld
                                                                                                                 b, #0x11
                                               loc_0_D32:
                                                                                                                                                                                                                                ; CODE XREF: sub_0_D30+5|j
                                                                                                                  (hl), #0xFD; '2'
                                                                                            1d
                                                                                                                 hl
loc_0_D32
                                                                                            djnz
                                                                                            1d
                                                                                                                 de, #0xF
hl, de
b, #0x11
0D37 11 0F

0D3A 19

0D3B 06 11

0D3D

0D3D 0

0D3D 36 FC

0D3F 23

0D40 10 FB

0D42 C9
                                                                                            add
                                                                                            ld
                                                                                                                                                                                                                               ; CODE XREF: sub 0 D30+10-j
                                               loc 0 D3D:
                                                                                                                  (hl), #0xFC; '3'
                                                                                           14
                                                                                           inc
djnz
                                                                                                                 hl
loc_0_D3D
                                                                                           ret
0D42
0D42
0D43
0D43
                                               ; End of function sub_0_D30
0D43

0D43

0D43

0D43

0D43

21 87 76

0D46 CD 4C 0D

0D49

0D49

0D40

0D40

0D40

0D4C

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

0D59

0D59 36 FC

0D5B 23

0D5C 10 FB

0D5E C9

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

0D5F

0D5F

0D5F CD 56 0F

0D62 CD 41 24

0D65 21 09 60

0D68 36 40

0D6A 23

0D6B 34

0D6C 21 5C 38

0D6F CD 4E 00

0D72 11 00 69
                                               loc_0_D5F:
                                                                                                                                                                                                                                ; CODE XREF: 0000:3FA3|j
                                                                                                                 loc_0_F56
sub_0_2441
hl, #eight_bit_countdown
(hl), #0x40; '@'
                                                                                           call
                                                                                           call
ld
ld
                                                                                           inc
inc
ld
call
                                                                                                                                                                                                                                 ; main_sequencer
; next sequence (2)
                                                                                                                  hl
                                                                                                                 (hl)
hl, #kong_normal_spr
copy_sprites_2_11_data
UD6F CD 4E 00

0D72 11 00 69

0D75 01 08 00

0D78 ED B0

0D7A 3A 27 62

0D7D FE 04

0D7F 28 0A

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

0D82 OF

0D83 D8

0D84 21 OB 69

0D87 OE FC

0D89 FF
                                                                                                                                                                                                                                  ; level 2/3?
                                                                                            rrca
                                                                                            ret
ld
                                                                                                                                                                                                                                      yes, return sprite #2, x coord
                                                                                                                  hl, #soft_sprite_ram+0xB
                                                                                                                  c, #0xFC;
0x38
                                                                                            ld
                                                                                                                                                                                                                                  ; subtract 4 from x coord for 10 sprites
                                                                                            rst
0D8A C9
0D8B
0D8B
0D8B
0D8B 21 08 69
0D8E 0E 44
0D90 FF
                                                                                                                                                                                                                                ; CODE XREF: 0000:0D7F<sup>†</sup>j; sprite #2, xcoord
                                               loc 0 D8B:
                                                                                                                 hl, #soft_sprite_ram+8
c, #68
0x38
                                                                                            ld
                                                                                            ld
; add 68 to x coord for 10 sprites
                                                                                            rst
                                                                                           ld
ld
ld
                                                                                                                  de, #4
bc, #0x210
hl, #soft_sprite_ram
                                                                                                                                                                                                                                ; sprite #0, y coord
                                                                                            call
                                                                                                                   loc_0_3D
                                                                                                                 bc, #0x2F8
hl, #soft_sprite_ram+3
                                                                                            ld
                                                                                            ld
                                                                                                                                                                                                                                ; sprite #0, x coord
                                                                                            call
                                                                                                                  loc 0 3D
                                                                                           ret
                                                                                            SUBROUTINE
                                               draw_level_background:
                                                                                                                                                                                                                                      CODE XREF: 0000:0A951p
0000:0B4B1p ...
 0DA7
                                                                                            ld
                                                                                                                          (de)
                                                                                                                                                                                                                                      get flag
 0DA7
0DA8 32 B3 63
0DAB FE AA
0DAD C8
                                                                                           ld
cp
ret
                                                                                                                   (segment_type), a #0xAA; '¬'
                                                                                                                                                                                                                                      store for later
done?
yes, return
next table address
ODAE 13
ODAF 1A
                                                                                                                  de
                                                                                            ld
                                                                                                                  a, (de)
                                                                                                                                                                                                                                      get byte
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
0DB0 67
                                                               h, a
                                                               b. h
0DB1
       44
                                                   ld
                                                                                                                               next table address
get byte
L=X1
                                                                                                                                B=Y1
0DB1
0DB2
0DB3
0DB4
                                                   inc
ld
ld
                                                                   (de)
                                                                   a
1
0DB5
        4D
                                                   ld
                                                                                                                             ; C=X1
0DB6 D5
0DB7 CD F0 2F
0DBA D1
                                                   push
call
                                                               de
                                                               get_tilemap_addr_from_coords
                                                   pop
ld
0DBB 22 AB 63
0DBE 78
                                                               (segment_addr_1), hl
                                                                                                                            ; store vram address #1
                                                   ld
and
ld
ODBE 78
ODBF E6 07
ODC1 32 B4 63
ODC4 79
ODC5 E6 07
ODC7 32 AF 63
ODCA 13
                                                               (tile_byte_1), a
                                                   ld
and
       32 AF 63
                                                   ld
                                                                ; next table entry
                                                   inc
                                                               de
                                                              a, (de)
h, a
ODCB 1A
ODCC 67
ODCD 90
                                                                                                                             ; Y2
; H=Y2
                                                   1d
                                                                                                                               calc delta Y
                                                   sub
ODCE D2 D3 OD
                                                   jр
                                                               NC. loc 0 DD3
                                                                                                                               no, skip
0DD1 ED 44
0DD3
0DD3
                                                                                                                             ; delta Y
                          loc 0 DD3:
                                                                                                                             ; CODE XREF: draw level background+271j
0DD3 32 B1 63
                                                               (dY), a
                                                   ld
0DD5 32
0DD6 13
0DD7 1A
0DD8 6F
                                                               de
a, (de)
1, a
                                                   inc
ld
                                                                                                                             ; L=X2
                                                   ld
0009
       91
                                                   sub
                                                                                                                               calc delta X
ODDD
ODDD
                                                   ld
ld
        32 B2 63
                                                               a, (de)
                                                               (dx)
                                                                                                                             ; X2 (again)
; TILE bits only
ODDD 1A
ODDE E6 07
                                                   and
ODEO 32 BO 63
ODE3 D5
ODE4 CD FO 2F
ODE7 D1
                                                                (end_tile_index), a
                                                   1d
                                                   push
call
                                                               get_tilemap_addr_from_coords
de
                                                   pop
ld
                                                               (segment_addr_2), h1
a, (segment_type)
#2
ODE8 22 AD 63
ODEB 3A B3 63
ODEE FE 02
                                                                                                                            ; store vram address #2
; flag
; >=2?
                                                   ср
                                                               P, draw_girder_segment
0DF0 F2 4F 0E
                                                                                                                             ; yes, skip
                                                   jр
ODF3
0DF3
0DF3 3A B2 63
                          draw_ladder_segment:
                                                                    (dX)
                                                   ld
                                                               #0x10
0DF6 D6 10
                                                   sub
                                                                                                                            ; calc starting tile index adjustment
ODF8 47
ODF9 3A AF 63
                                                   ld
ld
                                                               b, a
a, (start_tile_index)
ODF9 3A AF 63

ODFC 80

ODFD 32 B2 63

OE00 3A AF 63

OE03 C6 F0

OE05 2A AB 63

OE08 77

OE09 2C

OE0A D6 30

OE0C 77
                                                   add
                                                               a, b
(dX), a
a, (start_tile_index)
                                                                                                                            ; adjust
                                                   14
                                                   ld
add
                                                                                                                            ; girder top, no ladder above
                                                                  #0xF0 ;
                                                               hl, (segment_addr_1)
                                                   1d
                                                   ld
inc
sub
                                                                                                                            ; display tile
; next row
; matching ladder tile
                                                                (hl), a
                                                               #0x30 ; '0'
0E0C 77
0E0D 3A B3 63
0E10 FE 01
0E12 C2 19 0E
                                                               (hl), a
a, (segment_type)
#1
                                                   1d
                                                                                                                             ; display it
                                                   ld
                                                                                                                            ; broken ladder?
; no, skip
; flag end-of-ladder
                                                   ср
                                                               NZ, next_tile_in_ladder_segment
                                                   jр
0E15 AF
0E16 32 B2 63
0E19
                                                   ld
                                                               (dX), a
                                                                                                                            ; CODE XREF: draw_level_background+6Bfj
; draw_level_background+80fj
                          next tile in ladder segment:
0E19 3A B2 63
                                                               a, (dX)
#8
                                                   ld
sub
                                                                                                                             ; finished ladder?
0E1E 32 B2 63
0E21 DA 2A 0E
                                                               (dX), a
                                                   ld
                                                               __,, a
C, loc_0_E2A
1
                                                   jp
inc
                                                                                                                             ; yes, skip
; next row
; full ladder tile
0E21 DA 2A 0E
0E24 2C
0E25 36 C0
0E27 C3 19 0E
                                                                                                                             ; full ladder til
; loop for ladder
                                                               next_tile_in_ladder_segment
                                                   jр
0E2A
0E2A
0E2A
                                                                                                                            ; CODE XREF: draw_level_background+7A<sup>†</sup>j
                          loc_0_E2A:
0E2A 3A B0 63
0E2D C6 D0
0E2F 2A AD 63
0E32 77
                                                               a, (end_tile_index)
a, #0xD0 ; 'ð'
h1, (segment_addr_2)
(h1), a
                                                   1d
                                                   add
ld
                                                                                                                            ; girder top, bottom of ladder
; vram address
                                                   ld
                                                               a, (segment_type)
0E33 3A B3 63
0E36 FE 01
0E38 C2 3F 0E
                                                   ld
                                                                                                                             ; broken ladder?
; no, skip
; row above
                                                   ср
                                                               NZ, loc_0_E3F
                                                   jp
0E3B 2D
0E3C 36 C0
0E3E 2C
0E3F
                                                               (hl), #0xC0 ; 'L'
                                                                                                                             ; display full ladder tile
; re-adjust row
                                                   ld
                                                                                                                             ; CODE XREF: draw level background+911i
0E3F
                          loc 0 E3F:
                                                               a, (end_tile_index)
#0
0E3F 3A B0 63
0E42 FE 00
0E44 CA 4B 0E
0E47 C6 E0
                                                   ld
cp
                                                                                                                             ; 2nd tile (below) req'd?
                                                               Z, loc_0_E4B
a, #0xE0; 'Ó'
                                                                                                                               no, skip
bottom of girder, no ladder below
next row
                                                   jp
add
0E49 2C
0E4A 77
0E4B
                                                   ld
                                                               (hl), a
                                                                                                                             ; display tile
                                                                                                                             ; CODE XREF: draw_level_background+9D<sup>†</sup>j
0E4B
                          loc_0_E4B:
0E4B 13
0E4C C3 A7 0D
0E4F
                                                                                                                             ; next entry
; loop through level data
                                                   inc
                                                               draw_level_background
                                                   jр
0E4F
0E4F
0E4F 3A B3 63
                          draw_girder_segment:
                                                               a, (segment_type)
#2
                                                                                                                            ; CODE XREF: draw_level_background+49<sup>†</sup>j
                                                   ld
0E52 FE 02
0E54 C2 E8 0E
0E57 3A AF 63
0E5A C6 F0
                                                   cp
jp
ld
                                                                                                                            ; girder?
; no, skip
```

; girder top (no ladder above)
; initialise girder segment tile
; 'from' address

; display it ; next row

; full girder?

; bottom of screen?
; yes, skip

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

#Z
NZ, loc_0_EE8
a, (start_tile_index)
a, #0xF0;'-'
(current_tile_in_segment), a

a, (current_tile_in_segment)
(hl), a
hl

(current_tile_in_segment)

hl, (segment_addr_1)

hl a, l #0x1F

Z, loc_0_E78

add

ld ld

ld ld

inc

ld and

jp ld

next tile in girder segment:

0E5C 32 B5 63 0E5F 2A AB 63 0E62

0E62 3A B5 63 0E62 0E65 0E65 0E66 23 0E67 7D

0E66 23 0E67 7D 0E68 E6 1F 0E6A CA 78 0E 0E6D 3A B5 63 0E70 FE F0

0E62

```
0E72 CA 78 0E
                                                                                                          Z, loc_0_E78
                                                                                                                                                                                                                 ; yes, skip
0E75 D6 10
0E77 77
0E78
0E78
0E78 01 1F 00
                                                                                                                                                                                                                      get matching bottom piece
                                                                                      sub
                                                                                                          (hl), a
                                                                                                                                                                                                                 ; display it
                                            loc_0_E78:
                                                                                                                                                                                                                 ; CODE XREF: draw_level_background+C3^j
                                                                                                                                                                                                                 ; draw_level_background+CB | j
0E78 01 1F 00
0E78 09
0E7C 3A B1 63
0E7F D6 08
0E81 DA CF 0E
0E84 32 B1 63
0E87 3A B2 63
                                                                                                         bc, #0x1F
h1, bc
a, (dY)
#8
                                                                                      14
                                                                                     add
ld
                                                                                                                                                                                                                ; finished? (ignore [2:0])
; yes, skip
                                                                                      sub
                                                                                     jp
ld
ld
                                                                                                                loc_0_ECF
                                                                                                          (dY), a
a, (dX)
#0
 0E8A FE 00
0E8C CA 62 0E
0E8F 3A B5 63
0E92 77
                                                                                     cp
jp
ld
ld
                                                                                                                                                                                                                 ; angled?
; no, loop
                                                                                                          z, next_tile_in_girder_segment
a, (current_tile_in_segment)
(hl), a
                                                                                                                                                                                                                 ; display it
; next row
0E92 77
0E93 23
0E94 7D
0E95 E6 1F
0E97 CA A0 0E
0E9A 3A B5 63
0E9D D6 10
0E9F 77
                                                                                      inc
                                                                                                          hl
                                                                                      and
                                                                                                                                                                                                                 ; bottom of screen?
                                                                                                         Z, loc_0_EA0
a, (current_tile_in_segment)
#0x10
                                                                                     jp
ld
sub
ld
                                                                                                                                                                                                                 ; yes, skip
                                                                                                                                                                                                                 ; get matching bottom piece
; display it
                                                                                                          (hl), a
 0EA0
0EA0 0EA0 0 1 F 00 0EA3 09 0EA4 3A B1 63 0EA7 D6 08 0EA2 3A B1 63 0EAF 3A B2 63 0EAF 3A B2 63 0EB4 C2 D3 0E 0EB4 C2 D3 0E 0EB4 C3 DEBA 3C 0EBA 3C 0EBA
                                                                                                                                                                                                                 ; CODE XREF: draw_level_background+F0^j
                                            loc_0_EA0:
                                                                                                         bc, #0x1F
h1, bc
a, (dY)
#8
                                                                                                                                                                                                                ; next column
                                                                                      add
                                                                                      14
                                                                                                                                                                                                                 ; finished? (ignore [2:0])
; yes, skip
                                                                                      sub
                                                                                                                 loc_0_ECF
                                                                                      jp
ld
                                                                                                          (dY)
                                                                                                         a, (dX)
                                                                                     ld
bit
                                                                                                                                                                                                                 ; sloping up? ; no, skip
                                                                                                         NZ, girder_sloping_down
a, (current_tile_in_segment)
                                                                                      jp
ld
0EB7 3A B5 63

0EBA 3C

0EBB 32 B5 63

0EBE FE F8

0EC0 C2 C9 0E

0EC3 23

0EC4 3E F0

0EC6 32 B5 63
                                                                                                                                                                                                                 ; next tile
                                                                                      ld
                                                                                                           (current_tile_in_segment), a
                                                                                                                                                                                                                 ; time to wrap tile?
                                                                                      ср
                                                                                                         NZ, loc_0_EC9
                                                                                      jp
inc
                                                                                                                                                                                                                 ; no, skip
; next row
; init current tile
                                                                                                          h1
                                                                                                          a, #0xF0 ; '-'
                                                                                                          (current_tile_in_segment), a
                                                                                      ld
 0EC9
                                            loc_0_EC9:
                                                                                                                                                                                                                 ; CODE XREF: draw_level_background+119^{\dagger} j
                                                                                      ld
                                                                                                                                                                                                                 ; bottom of screen?
; no, loop
 0ECA E6 1F
0ECC C2 62 0E
                                                                                      and
                                                                                                          NZ, next_tile_in_girder_segment
                                                                                      jр
 OECF
OECF
OECF 13
                                                                                                                                                                                                                ; CODE XREF: draw_level_background+DA<sup>†</sup>j
; draw_level_background+102<sup>†</sup>j ...
; next entry
; loop for all entries
                                            loc_0_ECF:
 ORCE
                                                                                      inc
 OEDO C3 A7 OD
OED3
                                                                                                          draw_level_background
 0ED3
0ED3
0ED3 3A B5 63
0ED6 3D
                                            girder_sloping_down:
                                                                                                                                                                                                                 ; CODE XREF: draw_level_background+10D<sup>†</sup> j
                                                                                      ld
                                                                                                          a, (current_tile_in_segment)
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
                                                                                                           (current_tile_in_segment), a
                                                                                                        P, loc_0_EE5
                                                                                                                                                                                                                 ; time to wrap tile?
; no, skip
; next row
; init current tile
                                                                                      cp
jp
                                                                                      dec
ld
 0EE0 3E F7
                                                                                                               #0xF7 ; '
                                                                                                          a, #0xF7 ; ','
(current_tile_in_segment), a
 0EE2 32 B5 63
0EE5
                                                                                                                                                                                                                 ; CODE XREF: draw_level_background+135↑j; loop
 0EE5
0EE5 C3 62 0E
                                            loc_0_EE5:
                                                                                                          next_tile_in_girder_segment
 OEE8
OEE8
                                                                                                                                                                                                                 ; CODE XREF: draw_level_background+AD^j
 0EE8
                                            loc 0 EE8:
                                                                                                         a, (segment_type)
#3
 0EE8 3A B3 63
0EEB FE 03
0EED C2 1B 0F
                                                                                      ld
                                                                                      ср
                                                                                                          NZ, loc_0_F1B
                                                                                     jp
ld
ld
ld
ld
                                                                                                         NY, IOC__FIB
hl, (segment_addr_1)
a, #0xB3; '|'
(h1), a
bc, #0x20; ''
hl, bc
a, (dY)
#0x10
 0EF0 2A AB 63
0EF3 3E B3
0EF5 77
0EF6 01 20 00
 0EFO 01 20 00
0EF9 09
0EFA 3A B1 63
0EFD D6 10
                                                                                      add
                                                                                      ld
                                                                                      sub
OBFF OBFF DA 14 OF OFFO 32 B1 63 OF05 3E B1 OF07 77 OF08 01 20 00 OF0B 09 OF0C 3A B1 63 OF0 DE 08 OF OR
 0EFF
                                            loc_0_EFF:
                                                                                                                                                                                                                ; CODE XREF: draw_level_background+16A|j
                                                                                                         C, loc_0_F14
(dY), a
a, #0xB1; '#'
(h1), a
bc, #0x20; ''
                                                                                     jp
ld
ld
                                                                                      ld
ld
                                                                                      add
ld
                                                                                                          hl, bc
a, (dY)
 0F0F D6 08
0F11 C3 FF 0E
0F14
                                                                                      sub
                                                                                      jp
                                                                                                          loc_0_EFF
 0F14
0F14
0F14 3E B2
0F16 77
                                            loc_0_F14:
                                                                                                                                                                                                                ; CODE XREF: draw_level_background+158<sup>†</sup>j
                                                                                                          a, #0xB2; '|| '
                                                                                      ld
                                                                                      ld
 0F10 77
0F17 13
0F18 C3 A7 0D
0F1B
                                                                                                          draw_level_background
                                                                                      jр
 0F1B
 0F1B
0F1B 3A B3 63
0F1E FE 07
0F20 F2 CF 0E
                                            loc_0_F1B:
                                                                                                                                                                                                                 ; CODE XREF: draw_level_background+146 j
                                                                                                          a, (segment_type)
                                                                                     cp
jp
cp
                                                                                                          P, loc_0_ECF
 0F20 F2 CF 0E
0F23 FE 04
0F25 CA 4C 0F
0F28 FE 05
                                                                                                          Z, erase_straight_girders
                                                                                      cp
jp
ld
 0F2A CA 51 0F
                                                                                                          Z. loc 0 F51
 OF2D 3E FE
OF2F
                                                                                                                                                                                                                 ; CODE XREF: draw level background+1A7-j
 OF2F
                                            loc 0 F2F:
 0F2F 32 B5 63
                                                                                                                                                                                                                 ; draw_level_background+1AC
 0F2F 32 B3 03
0F2F
0F32 2A AB 63
                                                                                                         (current_tile_in_segment), a
hl, (segment_addr_1)
                                                                                      ld
 0F35
                                            loc_0_F35:
                                                                                                                                                                                                                ; CODE XREF: draw_level_background+19E|j
```

```
a, (current_tile
(h1), a
bc, #0x20;
h1, bc
a, (dY)
#8
0F35 3A B5 63
                                                              ld
                                                                                   (current_tile_in_segment)
0F38 77
0F39 01 20 00
0F3C 09
0F3D 3A B1 63
                                                              ld
                                                             ld
add
ld
0F40 D6 08
0F42 32 B1 63
0F45 D2 35 0F
0F48 13
                                                              sub
                                                                             (dY), a
NC, loc_0_F35
de
                                                              ld
jp
0F48 13
0F49 C3 A7 0D
                                                                             draw_level_background
                                                              jр
0F4C
0F4C
0F4C
                                erase_straight_girders:
                                                                                                                                                        ; CODE XREF: draw_level_background+17E<sup>†</sup>j
0F4C 3E E0
0F4E C3 2F 0F
0F51
0F51
                                                              1d
                                                                                 . #0xE0 ; 'Ó'
                                                                             loc_0_F2F
0F51
0F51 3E B0
0F53 C3 2F 0F
                                loc_0_F51:
                                                                                                                                                        ; CODE XREF: draw_level_background+183 j
                                                                             a, #0xB0 ; '\"'
loc_0_F2F
                                                              ld
                                                              jр
                                ; End of function draw_level_background
                                loc_0_F56:
                                                                                                                                                        ; CODE XREF: 0000:0D5F1p
0F56
0F56 06 27
0F58 21 00 62
0F5B AF
0F5C
0F5C 77
0F5C 77
                                                              ld
ld
                                                                             b, #0x27; '''
hl, #mario_alive_flag
                                                              xor
                                loc_0_F5C:
                                                                                                                                                        ; CODE XREF: 0000:0F5E|j
                                                              ld
                                                                              (hl), a
                                                              inc
0F5E 10 FC
0F60 0E 11
0F62 16 80
0F64 21 80 62
                                                                             loc_0_F5C
c, #0x11
d, #0x80; 'Ç'
hl, #unk_0_6280
                                                              djnz
ld
ld
                                                              ld
0F67
0F67
0F67 42
                                loc_0_F67:
                                                                                                                                                        ; CODE XREF: 0000:0F6D|j
                                                             ld
                                                                             b, d
0F68
0F08
0F68
0F68
0F68
77
0F69
23
0F6A
10
FC
0F6C
0D
0F6D
20
F8
0F6F
21
11
80
0F72
11
80
0F73
11
80
0F78
ED
0F7A
0F7B
47
0F7B
47
0F7B
47
0F7B
47
0F81
17
0F80
47
0F82
47
0F88
80
0F86
66
28
0F86
66
28
0F86
66
28
0F86
67
50
0F86
                               loc_0_F68:
                                                                                                                                                        ; CODE XREF: 0000:0F6A-1
                                                                             (hl), a
                                                              ld
                                                              inc
                                                             dec
jr
ld
ld
ld
ldir
                                                                             loc_0_F68
                                                                             NZ, loc_0_F67
                                                                            hl, #level_init_data
de, #unk_0_6280
bc, #0x40; '@'
                                                              ld
ld
and
rla
                                                                             a, (level)
b, a
                                                              and
rla
and
rla
                                                                             а
                                                                             a
                                                                            a, b
a, b
a, #0x28; '('
#0x51; 'Q'
C, loc_0_F8E
a, #0x50; 'P'
                                                              add
add
add
                                                              cp
jr
ld
loc 0 F8E:
                                                                                                                                                       ; CODE XREF: 0000:0F8A j
                                                                            hl, #unk_0_62B0
b, #3
                                                              14
                                                              ld
                                loc_0_F93:
                                                                                                                                                        ; CODE XREF: 0000:0F95-i
                                                              ld
                                                                             (hl), a
                                                              inc
djnz
                                                                             loc_0_F93
                                                              add
                                                              ld
ld
                                                                            a, #0xDC; '
0F9B 90 0
0F9C FE 28 0
0F9E 30 02 0
0FAO 3E 28 0
0FAO 3E 28 0
0FAO 2 77 0
0FAO 2C 0
0FAO 2C 0
0FAO 3B 60 0
0FAO 3B 60 0
0FAO 3A 27 62 0
0FBO 4F 57 0
0FBO 4F 57 0
0FBO 2D 16 0
                                                              sub
                                                              cp
jr
ld
                                                                              #0x28 ; '('
                                                                            NC, loc_0_FA2
a, #0x28; '(
                                loc_0_FA2:
                                                                                                                                                        ; CODE XREF: 0000:0F9E11
                                                              ld
                                                                              (hl), a
                                                              inc
ld
                                                                             (hl), a
hl, #unk_0_6209
(hl), #4
                                                              ld
ld
                                                              inc
                                                                             1 (h1), #8
                                                              ld
ld
                                                                                   (level_type)
                                                              bit
0FB3 20 16
0FB5 21 00 6A
0FB8 3E 4F
0FBA 06 03
                                                              jr
ld
ld
                                                                             NZ, loc_0_FCB
hl, #soft_sprite_ram+0x100
a, #0x4F; '0'
b, #3
                                                                                                                                                      ; sprite #64, y coord
                                                              ld
OFBC
OFBC
OFBC 77
                                loc_0_FBC:
                                                                                                                                                        ; CODE XREF: 0000:0FC9|j
                                                              ld
                                                                             (hl), a
0FBC 77
0FBD 2C
0FBE 36 3A
0FC0 2C
0FC1 36 0F
0FC3 2C
0FC4 36 18
0FC6 2C
0FC7 C6 10
0FC9 10 F1
                                                              inc
ld
inc
ld
                                                                              (hl), #0x3A; ':'
                                                                              (hl), #0xF
                                                              inc
                                                              ld
inc
add
                                                                              (hl), #0x18
                                                                             a, #0x10
loc_0_FBC
                                                              djnz
0FC9 10 F1
0FCB
0FCB 0FCB 79
0FCC EF
0FCC 0FCD 00 00
                                                                                                                                                         ; CODE XREF: 0000:0FB3^j
                                loc_0_FCB:
                                                              ld
                                                                             a, c
0x28
                                                              rst
                                                                                                                                                         ; go!
                                                              .dw RESET
.dw init_l1_girder
.dw init_l2_cement
                                                                                                                                                        ; Jump table
OFCE D7 OF
0FD1 1F 10
```

```
0FD3 87 10
                                                                              .dw init_13_elevator .dw init_14_rivets
0FD3 87 10

0FD5 31 11

0FD7

0FD7

0FD7

0FD7 21 DC 3D

0FDA 11 A8 69

0FDD 01 10 00

0FED 21 EC 3D
                                                                                                                                                                                                ; DATA XREF: 0000:0FCF\o
                                        init_l1_girder:
                                                                                                hl, #top_barrel_spr
de, #soft_sprite_ram+0xA8
bc, #0x10
                                                                              ld
                                                                              ldir
           21 EC 3D
11 07 64
0E 1C
06 05
                                                                                                hl, #fireball_spr
de, #unk_0_6407
c, #0x1C
b, #5
OFE2
OFE5
OFE8
OFEA
                                                                              ld
                                                                              ld
ld
                                                                              ld
                                                                                                b, #5
sub_0_122A
hl, #girders_extra_spr
sub_0_11FA
hl, #girder_oil_barrel_spr
de, #soft_sprite_ram+0xFC
bc, #4
OFEC CD 2A 12
OFEF 21 F4 3D
OFF2 CD FA 11
OFF5 21 00 3E
                                                                              call
ld
call
ld
0FF5 21 00
0FF8 11 FC
0FFB 01 04
0FFE ED B0
                                                                              ld
ld
ldir
1000 21 0C 3E
1003 CD A6 11
                                                                                                 hl, #girder_hammer_locs
                                                                              ld
                                                                              call
                                                                                                 sub_0_11A6
                                       loc 0 1006:
                                                                                                 hl, #cement_unknown_spr
de, #unk_0_6707
bc, #0x81C
1006 21 1B 10
                                                                              ld
1006 21 1B 10
1009 11 07 67
100C 01 1C 08
100F CD 2A 12
1012 11 07 68
1015 06 02
1017 CD 2A 12
101A C9
                                                                              ld
ld
                                                                                                 sub_0_122A
de, #unk_0_6807
b, #2
                                                                              call
                                                                              ld
                                                                              ld
                                                                                                 sub_0_122A
                                                                              call
                                                                              ret
; DATA XREF: 0000:1006 o
101F
101F 21 EC 3D
1022 11 07 64
1025 01 1C 05
1028 CD 2A 12
1028 CD 86 11
102E 21 18 3E
1031 11 A7 65
1034 01 0C 06
1037 CD 2A 12
103A DD 21 A0 65
103E 21 B8 69
1041 11 10 00
1044 06 06
1044 06 06
1046 CD D3 11
1049 21 FA 3D
104C CD FA 11
104F 21 04 3E
1052 11 FC 69
1055 01 04 00
1058 ED B0
1063 ED B0
1063 ED B0
                                        init_12_cement:
                                                                                                                                                                                                ; DATA XREF: 0000:0FD1 o
                                                                                                 hl, #fireball_spr
de, #unk_0_6407
                                                                              ld
ld
                                                                              ld
                                                                                                 bc.
                                                                                                          #0x51
                                                                              call
call
ld
ld
                                                                                                 sub_0_1186
                                                                                                 hl, #cement_pie_spr
de, #unk_0_65A7
                                                                              ld
call
ld
ld
ld
                                                                                                 bc, #0x60C
sub_0_122A
                                                                                                ix, #unk_0_65A0
hl, #soft_sprite_ram+0xB8
de, #0x10
b #6
                                                                                                 de, #
b, #6
                                                                                                 set_B_sprites_data
                                                                              call
                                                                              ld
call
ld
                                                                                                hl, #cement_extra_spr
sub_0_11FA
hl, #cement_oil_barrel_spr
de, #soft_sprite_ram+0xFC
                                                                              ld
ld
ldir
ldir
                                                                                                 hl, #cement_ladder_spr
105D 11 44
1060 01 08
1063 ED B0
1065 21 24
                                                                              ld
ld
ldir
                                                                                                 de, #soft_sprite_ram+0x44
bc, #8
                         00
                          3E
                                                                                                 hl, #cement_conveyer_spr
de, #soft_sprite_ram+0xE4
bc, #0x18
 1065 21 24 3E
1068 11 E4 69
106B 01 18 00
106E ED B0
                                                                              ld
ld
 1068
                                                                              ld
ldir
106E ED B0
1070 21 10
1073 CD A6
1076 21 3C
1079 11 0C
107C 01 0C
                                                                                                 hl, #cement_hammer_locs
                                                                              1d
                                                                              call
ld
ld
                                                                                                  sub_0_11A6
                                                                                                 hl, #cement_obj_spr
de, #soft_sprite_ram+0x10C
                          00
                                                                              ld
                                                                                                 bc, #0xC
107F ED B0
1081 3E 01
1083 32 B9 62
                                                                              ldir
ld
ld
                                                                                                 a, #1
(unk_0_62B9), a
1086 C9
1087
1087
1087
                                                                              ret
                                        init 13 elevator:
                                                                                                                                                                                                ; DATA XREF: 0000:0FD31o
1087 | 1087 21 EC 3D 108A 11 07 64 108D 01 1C 05 1090 CD 2A 12 1093 CD 86 11 1096 21 00 66 1099 11 10 00 10A0 | 10A0 77 10A1 19 10A2 10 FC 10A4 0E 02 10A6 3E 08
                                                                                                 hl, #fireball_spr
de, #unk_0_6407
bc, #0x51C
sub_0_122A
                                                                              1d
                                                                              ld
ld
                                                                              call
                                                                              call
ld
ld
                                                                                                 sub_0_122A
sub_0_1186
hl, #unk_0_6600
de, #0x10
                                                                              ld
                                                                              ld
                                                                                                                                                                                               ; CODE XREF: 0000:10A2-i
                                       loc 0 10A0:
                                                                                                 (hl), a
hl, de
loc_0_10A0
                                                                              ld
                                                                              add
                                                                              djnz
ld
                                                                                                 c, #2
a, #8
10A6 3E 08
10A8
10A8
10A8 06 03
                                                                              1d
                                       loc_0_10A8:
                                                                                                                                                                                                ; CODE XREF: 0000:10B4|j
                                                                                                 b, #3
hl, #unk_0_660D
10AA 21 0D 66
10AD
10AD
                                                                              ld
                                       loc_0_10AD:
                                                                                                                                                                                                ; CODE XREF: 0000:10AF|j
                                                                                                 (hl), a
hl, de
loc_0_10AD
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
10AD 77
                                                                              ld
                                                                              add
djnz
ld
                                                                                                 a, #8
                                                                              dec
                                                                                                 NZ, loc_0_10A8
hl, #elevator_spr_xy
de, #unk_0_6603
bc, #0x60E
                                                                               jp
ld
                                                                              ld
ld
10BD 01 0E 06
10C0 CD EC 11
10C3 21 60 3E
10C6 11 07 66
10C9 01 0C 06
10CC CD 2A 12
10CF DD 21 00 66
10D3 21 58 69
                                                                                                 sub_0_11EC
hl, #elevator_spr
de, #unk_0_6607
                                                                              call
ld
                                                                              ld
                                                                              ld
call
ld
                                                                                                bc, #0x60C

sub_0_122A

ix, #umk_0_6600

hl, #soft_sprite_ram+0x58

b, #6
10D3 21 58
10D6 06 06
                                                                              1d
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
                                                                        ld
                                                                                         de, #0x10
10DB CD D3 11
10DB CD D3 11
10DE 21 48 3E
10E1 11 0C 6A
10E4 01 0C 00
10E7 ED B0
10E9 DD 21 00 64
10ED DD 36 0B 05
10F5 DD 36 0E 58
10F9 DD 36 0F 80
1101 DD 36 2E 6B
1109 DD 36 2E 6B
1101 DD 36 2E 6D
1115 DD 36 2E 60
1111 DD 36 2E 60
1111 DD 36 2E 60
1111 DD 36 2E 6D
1111 DD 36 2E 6D
                                                                                        set_B_sprites_data
hl, #elevator_obj_spr
de, #soft_sprite_ram+0x10C
bc, #0xC
                                                                        call
ld
ld
ld
 10DB CD D3 11
10DE 21 48 3E
10E1 11 0C 6A
10E4 01 0C 00
                                                                        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; 'Ü'

0x22(ix), #0xEB; 'Ü'

0x25(ix), #0xEB; 'Ü'

0x25(ix), #0xEB; 'Ü'
                                                                        ld
ld
ld
ld
ld
ld
                                                                                                                                                                              ; fireball character data
                                                                        ld
ld
ld
ld
                                                                                         de, #soft_sprite_ram+0x70
hl, #elevator_cap_spr
bc, #0x10
                                                                        ld
ld
ld
21 F0 3D
11 07 64
01 1C 05
                                                                                        hl, #fireball_rivet_spr
de, #unk_0_6407
bc, #0x51C
                                                                        ld
ld
1137 01 1C 05
113A CD 2A 12
113D 21 14 3E
1140 CD A6 11
1143 21 54 3E
1146 11 0C 6A
1149 01 0C 00
114C ED B0
                                                                                        be, #UX51C
sub_0_122A
hl, #rivet_hammer_locs
sub_0_11A6
hl, #rivit_obj_spr
de, #soft_sprite_ram+0x10C
bc, #0xC
                                                                        call
ld
call
ld
                                                                        ld
ld
ldir
114C ED B0
114E 21 82 11
1151 11 A3 64
1154 01 1E 02
1157 CD EC 11
115A 21 7E 11
115A 21 7E 11
115D 11 A7 64
1160 01 1C 02
1163 CD 2A 12
1166 DD 21 A0
116A DD 36 00
116E DD 36 20
1172 21 50 69
1175 06 02
1177 11 20 00
117A CD D3 11
                                                                                        hl, #rivet_unknown_spr2
de, #unk_0_64A3
bc, #0x2lE
sub_0_11EC
                                                                        ld
ld
ld
                                                                        call
ld
                                                                                         hl, #rivet_unknown_spr1
de, #unk_0_64A7
bc, #0x21C
                                                                        ld
ld
                                                                        call
ld
                                                                                         sub_0_122A
ix, #unk_0_64A0
0(ix), #1
0x20(ix), #1
                                                                        ld
ld
                                                                                        hl, #soft_sprite_ram+0x50
b, #2
de, #0x20; ' '
set_B_sprites_data
                                                                        ld
                                                                       ld
ld
call
 117D C9
 117D ;
117E 3F 0C 08 08 rivet_unknown_spr1:.db 0x3F, 0xC, 8, 8
                                                                                                                                                                                   DATA XREF: 0000:115A o Rivets level? Unknown sprites?
 DATA XREF: 0000:114E o
 1186
 1186
 1186
1186 21 A2 11
                                                                                                                                                                               ; CODE XREF: 0000:102B<sup>p</sup>; 0000:1093<sup>p</sup>
                                     sub_0_1186:
1186 21 A2 11
1186 1189 11 07 65
118C 01 0C 0A
118F CD 2A 12
1192 DD 21 00 65
1196 21 80 69
1199 06 0A
119B 11 10 00
                                                                                         hl, #elevator_bouncing_spr
                                                                        ld
                                                                                         de, #unk_0_6507
bc, #0xA0C
sub_0_122A
                                                                        ld
                                                                        call
ld
                                                                                        sub_0_122A
ix, #unk_0_6500
hl, #soft_sprite_ram+0x80
b, #0xA
de, #0x10
set P = ...
                                                                        ld
ld
                                                                        ld
 119E CD D3 11
11A1 C9
11A1
11A1
                                                                        call
                                                                                         set_B_sprites_data
                                     ret; End of function sub_0_1186
 11A1
           3B 00 02 02 elevator_bouncing_spr:.db 0x3B, 0, 2, 2
                                                                                                                                                                              ; DATA XREF: sub_0_1186 o
                                                                     SUBROUTINE
 11A6
 11A6
                                                                                                                                                                               ; CODE XREF: 0000:1003<sup>p</sup>; 0000:1073<sup>p</sup> ...
                                    sub_0_11A6:
11A6
11A6 11 83 66
11A6
11A9 01 0E 02
11AC CD EC 11
11AF 21 08 3E
                                                                                        de, #unk_0_6683
bc, #0x20E
                                                                        ld
ld
                                                                                        dc, #dx20E
sub_0_11EC
hl, #hammer_pickup_spr
de, #unk_0_6687
bc, #0x20C
sub_0_122A
11A9 01 0E 02
11AC CD EC 11
11AF 21 08 3E
11B2 11 87 66
11B5 01 0C 02
11B8 CD 2A 12
11BB DD 21 80
11BF DD 36 00
11C3 DD 36 10
11C7 21 18 6A
11CA 06 02
11CC 11 10 00
11CC D3 11
                                                                        call
ld
ld
ld
                                                                        call
                                                                                         ix, #unk_0_6680
0(ix), #1
0x10(ix), #1
                                                                        ld
ld
ld
                                                                                         hl, #soft_sprite_ram+0x118
                                                                                                                                                                           ; location of hammers in sprite ram
                                                                        ld
                                                                                         b, #2
de, #0
                                                                        1d
                                                                                                  #0~10
                                                                                         set_B_sprites_data
                                                                        call
 11D2 C9
                                                                        ret
 11D2
11D2
11D3
                                     ; End of function sub_0_11A6
 11D3
11D3
11D3
                                                                   SUBROUTINE
                                                                                                                                                                               ; CODE XREF: 0000:1046<sup>p</sup>; 0000:10DB<sup>p</sup> ...
                                     set B sprites data:
 11D3 DD 7E 03
                                                                                         a, 3(ix)
(h1), a
 11D3
11D6
                                                                        ld
ld
                                                                                                                                                                               ; set sprite X
                                                                                        1
a, 7(ix)
 11D7
                                                                        inc
 11D8 DD 7E 07
11DB 77
11DC 2C
                                                                        ld
                                                                        ld
                                                                                          (hl), a
                                                                                                                                                                               ; set sprite tile
                                                                                        1
a, 8(ix)
 11DD DD 7E 08
11E0 77
```

; set sprite vflip/palette

1d

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
11E1
11E2 DD 7E 05
                                                                                         a, 5(ix (hl), a
                                                                                               5(ix)
                                                                        1d
11E2 DD 7E
11E5 77
11E6 2C
11E7 DD 19
11E9 10 E8
                                                                        ld
inc
add
                                                                                                                                                                                 ; set sprite Y
                                                                                                                                                                                 ; next sprite data address
                                                                                         set_B_sprites_data
                                                                        djnz
11EB C9
11EB
                                     ret
; End of function set_B_sprites_data
11EB
11EC
11EC
11EC
11EC
                                                                     SUBROUTINE
11EC
11EC 7E
11EC
11ED 12
                                                                                                                                                                                 ; CODE XREF: 0000:10C0<sup>†</sup>p; 0000:1157<sup>†</sup>p ...
                                     sub_0_11EC:
                                                                                        a, (hl)
(de), a
                                                                        ld
11ED 12
11EF 23
11EF 1C
11F0 1C
11F1 7E
11F2 12
11F3 23
11F4 7B
11F5 81
11F6 5F
11F7 10 F3
11F9 C9
11F9 11F9
11FA
11FA
                                                                        ld
                                                                        inc
inc
inc
                                                                                         hl
                                                                                          e
                                                                                        a, (h<sub>1</sub>, (de), a
                                                                        ld
                                                                        ld
inc
ld
                                                                                         a, e
a, c
                                                                        add
                                                                        ld
djnz
                                     ret; End of function sub_0_11EC
                                                              SUBROUTINE
11FA
11FA
11FA
11FA DD 21 A0 66
                                                                                                                                                                                 ; CODE XREF: 0000:0FF2<sup>p</sup>; 0000:104C<sup>p</sup>
                                     sub_0_11FA:
                                                                                         ix, #unk_0_66A0
de, #soft_sprite_ram+0x128
0(ix), #1
a, (h1)
3(ix), a
(de), a
11FA
11FE 11 28 6A
1201 DD 36 00 01
                                                                        ld
ld
ld
1201 DD 36 00

1205 7E

1206 DD 77 03

1209 12

120A 1C

120B 23

120C 7E

120D DD 77 07

1210 12
                                                                        ld
                                                                        ld
ld
                                                                        inc
                                                                                         e
hl
                                                                                         a, (hl)
7(ix), a
(de), a
                                                                        ld
ld
inc
inc
ld
1210 12
1211 1C
1212 23
1213 7E
                                                                                         hl
                                                                                         a, (hl)
8(ix), a
(de), a
1213 7E
1214 DD 77 08
1217 12
1218 1C
1219 23
                                                                        ld
ld
inc
inc
                                                                                         e
hl
                                                                                         a, (hl)
5(ix), a
(de), a
                                                                        ld
ld
ld
121A 7E
121B DD 77 05
121E 12
121F 23
                                                                                         hl
a, (hl)
9(ix), a
hl
a, (hl)
0xA(ix), a
                                                                        inc
1220
1221
1224
1225
                                                                        ld
          DD 77 09
23
7E
                                                                        ld
inc
1226 DD 77 OA
                                                                        ld
1229 C9
1229
1229
                                     ret; End of function sub_0_11FA
122A
                                                                      SUBROUTINE
122A
122A
122A E5
122A
                                                                                                                                                                                  ; CODE XREF: 0000:0FEC^{\uparrow}p; 0000:100F^{\uparrow}p ...
                                     sub_0_122A:
                                                                        push
                                                                                         hl
122B C5
122C 06 04
122E
122E
                                                                        push
ld
                                                                                         bc
b, #4
                                                                                                                                                                                 ; CODE XREF: sub_0_122A+8 j
                                    loc 0 122E:
122E 122E 7E 122F 12 1230 23 1231 1C 1232 10 1234 C1 1236 7B 1237 81 1238 5F 1238 C9 123B C9 123B
                                                                                         a, (hl)
(de), a
hl
                                                                        1d
          12
23
1C
10 FA
                                                                        ld
                                                                        inc
                                                                        djnz
pop
                                                                                          loc_0_122E
                                                                                         bc
hl
                                                                        pop
ld
          7B
81
5F
10 EF
                                                                                         a, e
a, c
e, a
                                                                        add
ld
                                                                                          sub 0 122A
                                                                        djnz
123B C9
123B
123B
123C
123C
123C
123C
123C DF
123C
                                     ; End of function sub_0_122A
                                     init_mario:
                                                                                                                                                                                  ; DATA XREF: 0000:0718 o
                                                                                                                                                                                 ; 0000:074C↑o
; wait for 8-bit countdown
                                                                        rst
123C

123D 3A 27 62

1240 FE 03

1242 01 16 E0

1245 CA 4B 12

1248 01 3F F0

124B

124B DD 21 00
                                                                        ld
cp
ld
                                                                                         a, (level_type)
#3
                                                                                                                                                                                 ; elevators?
; mario x,y coords
; yes, skip
; mario x,y coords
                                                                                         bc, #0xE016
Z, loc_0_124B
bc, #0xF03F
                                                                        jp
ld
                                                                                                                                                                                  ; CODE XREF: 0000:1245<sup>†</sup>j
                                     loc 0 124B:
                                                                                         ix, #mario_alive_flag
hl, #soft_sprite_ram+0x4C
0(ix), #1
3(ix), c
(h1), c
124B DD 21 00 62
124F 21 4C 69
1252 DD 36 00 01
1256 DD 71 03
1259 71
1258 2C
                                                                                                                                                                                    sprite #19, y coord
flag mario is alive
mario y coord (X)
sprite y = mario X
sprite #19, flipy & code
flipy & tile=0
flipy & tile=0
sprite #19, flipx & colour
no flipx, colour=2
no flipx, colour=2
sprite #19, x coord
mario x coord (Y)
                                                                        ld
                                                                        ld
ld
                                                                        ld
ld
                                                                                         1
7(ix), #0x80; 'Ç'
(h1), #0x80; 'Ç'
125A 2C
125B DD 36 07 80
                                                                        inc
```

36 80 2C

1261 2C 1262 DD 36 08 02 1266 36 02 1268 2C

1269 DD 70 05

ld inc

ld ld inc ld 8(ix), #2 (h1), #2

5(ix), b

125F

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
                                                                                                         ld
                                                                                                                                   (hl), b
                                                                                                                                                                                                                                                                  ; x coord
 126D DD 36 OF 01
                                                                                                                                   0xF(ix), #1
                                                                                                         ld
                                                                                                                                  hl, #main_sequencer (hl) de, #0x601
 1271 21 0A 60
1274 34
1275 11 01 06
1278 CD 9F 30
                                                                                                         ld
inc
ld
                                                                                                                                                                                                                                                                  ; next sequence (3)
; display_lives_and_level
                                                                                                         call
                                                                                                                                  queue_fg_vector_fn
 1276 CD
127B C9
127C
127C
                                                                                                                                                                                                                                                                 ; DATA XREF: 0000:071C\u00f10
; 0000:0750\u00f10
127C
127C CD BD 1D
127C
127F 3A 9D 63
                                                      died_in_gameplay:
                                                                                                         call
                                                                                                                                  sub_0_1DBD
                                                                                                                                  a, (unk_0_639D)
0x28
                                                                                                         ld
127F 3A 9D
1282 EF
1282
1283 8B 12
1285 AC 12
1287 DE 12
1289 00 00
128B
                                                                                                         rst
                                                                                                                                                                                                                                                                  ; go!
                                                                                                         .dw delay_before_spin
                                                                                                                                                                                                                                                                  ; Jump Table
                                                                                                           .dw mario death spin
                                                                                                          .dw dead_mario_lying_down
.dw 0
128B
128B
128B DF
128C 21 4D 69
128F 3E F0
                                                                                                                                                                                                                                                                 ; DATA XREF: 0000:1283<sup>†</sup>o ; wait for 8-bit countdown
                                                      delay_before_spin:
                                                                                                                                  hl, #soft_sprite_ram+0x4D
a, #0xF0; '-'
                                                                                                         ld
                                                                                                                                                                                                                                                                 ; mario sprite << 1
                                                                                                         ld
                                                                                                                                  a, # (hl)
1291 CB 16
1293 1F
1294 77
1295 21 9D 63
1298 34
1299 3E 0D
1298 32 9E 63
1298 32 09 60
12A3 CD BD 30
12A6 3E 03
12A6 3E 03
12A6 3E 03
12A6 3E 08
12AC DF
12BC DF
12BC
                                                                                                         rl
rra
                                                                                                                                   (hl),
                                                                                                         1d
                                                                                                         ld
inc
ld
ld
                                                                                                                                  hl, #unk_0_639D
(hl)
a, #0xD
                                                                                                                                   a, #0xD
(unk_0_639E), a
                                                                                                         ld
ld
call
ld
                                                                                                                                  a, #8
(eight_bit_countdown), a
sub_0_30BD
                                                                                                                                  (unk_0_6088), a
                                                                                                         ld
                                                                                                                                                                                                                                                                  ; DATA XREF: 0000:1285\daggero o ; wait for 8-bit countdown
                                                      mario_death_spin:
                                                                                                                                 0x18
a, #8
(eight_bit_countdown), a
h1, #unk_0_639E
(h1)
                                                                                                         ld
                                                                                                         ld
                                                                                                         ld
dec
                                                                                                                                 (n1)
Z, loc_0_12CB
hl, #soft_sprite_ram+0x4D
a, (h1)
                                                                                                         jp
ld
ld
                                                                                                         rra
                                                                                                                                  a, #2
                                                                                                         ld
                                                                                                         rra
ld
                                                                                                                                  b, a (hl)
                                                                                                         xor
12C2 AE
12C3 77
12C4 2C
12C5 78
12C6 E6 80
                                                                                                         ld
inc
ld
                                                                                                                                   (hl), a
                                                                                                                                  a, b
#0x80;
                                                                                                                                                                                                                                                                 ; flip mario upside down?
                                                                                                         and
12C8 AE
12C9 77
12CA C9
12CB
                                                                                                         xor
                                                                                                                                   (h1)
 12CB
 12CB
12CB 21 4D 69
                                                      loc_0_12CB:
                                                                                                                                                                                                                                                                 ; CODE XREF: 0000:12B6†j
                                                                                                                                  hl, #soft_sprite_ram+0x4D
12CB 21 4D 69

12CE 3E F4

12D0 CB 16

12D2 1F

12D3 77

12D4 21 9D 63

12D7 34

12D8 3E 80

12DA 32 09 60

12DD C9
                                                                                                         ld
                                                                                                                                  a, #0xF4; (h1)
                                                                                                         r1
                                                                                                         rra
ld
                                                                                                                                  (h1), a
h1, #unk_0_639D
(h1)
                                                                                                         ld
                                                                                                         inc
ld
                                                                                                                                  (hl)
a, #0x80; 'Ç'
(eight_bit_countdown), a
                                                                                                         ld
12DD C9
12DE
12DE
12DE
                                                                                                         ret
                                                                                                                                                                                                                                                                  ; DATA XREF: 0000:1287<sup>†</sup>o
                                                     dead mario lying down:
12DE 12DE DF 12DF CD DB 30 12E2 21 0A 60 12E5 3A 0E 60 12E8 A7 12ED 12ED 12ED 12ED 12ED 12ED
                                                                                                         rst
call
                                                                                                                                  0x18
                                                                                                                                                                                                                                                                  ; wait for 8-bit countdown
                                                                                                                                  sub_0_30DB
hl, #main_sequencer
a, (current_player_E)
                                                                                                         1d
                                                                                                                                  a
Z, loc_0_12ED
(hl)
                                                                                                                                                                                                                                                                 ; player 1?
; yes, skip
                                                                                                          and
                                                                                                         jp
inc
12ED
12ED 34
12EE 2B
12EF 36
12F1 C9
12F2
12F2
                                                      loc_0_12ED:
                                                                                                                                                                                                                                                                 ; CODE XREF: 0000:12E9<sup>†</sup>j
                                                                                                                                   (hl)
               2B
36 01
                                                                                                                                  hl
(hl), #1
                                                                                                         dec
ld
copy_current_lvl_data_to_P1:
                                                                                                                                                                                                                                                                 ; DATA XREF: 0000:071E10
                                                                                                         call
                                                                                                                                  stop_sound
                                                                                                         xor
                                                                                                                                    (unk_0_622C),
                                                                                                         ld
                                                                                                                                 (unk_u_b22C), a
hl, #lives_left
(hl)
a, (hl)
de, #pl_level_data
bc, #8
                                                                                                         ld
dec
                                                                                                         ld
                                                                                                         1d
                                                                                                         ldir
                                                                                                         and
                                                      loc_0_1307:
                                                                                                         jp
ld
ld
                                                                                                                                  NZ, loc_0_1334
                                                                                                                                 NA, 10c_0_1331

a, #1

h1, #p1_score

sub_0_13CA

h1, #VRAM_start+0x2D4

a, (two_players)
                                                                                                         call
ld
                                                                                                         ld
```

and jr ld

call dec

131E CD 9F 30 1321 2B

Z, loc_0_1322 de, #0x302

queue_fg_vector_fn

; display_message_02

```
1322
1322 CD 26 18 1325 11 00 03 1328 CD 9F 30 1328 21 09 60 132E 36 CO 1330 23 1331 36 10 1333 CP 1334 4 1334 4 1334 6 10 1339 A7 133D 0E 17 133F 133F 133F 79 1340 32 0A 60 1344 1344 1344
                                                                                                                                                                                                                                           ; CODE XREF: 0000:13191i
                                                 loc 0 1322:
                                                                                                call
ld
call
                                                                                                                       clear_14x5_HL
de, #0x300
queue_fg_vector_fn
                                                                                                                                                                                                                                           ; display_message_00
                                                                                                                       hl, #eight_bit_countdown (hl), #0xCO; 'L'
                                                                                                1d
                                                                                                ld
inc
ld
                                                                                                                       hl
(hl), #0x10
                                                                                                ret
                                                  loc_0_1334:
                                                                                                                                                                                                                                          ; CODE XREF: 0000:1307<sup>†</sup>j
                                                                                                                       c, #8
a, (two_players)
                                                                                                ld
ld
and
                                                                                                                       a
Z, loc_0_133F
                                                                                                jp
ld
                                                                                                                                #0x17
                                                  loc_0_133F:
                                                                                                                                                                                                                                           ; CODE XREF: 0000:133A^j
                                                                                                ld
                                                                                                ld
                                                                                                                       (main_sequencer), a
 1344
1344 CD 1C 01
1347 AF
1348 32 2C 62
                                                  ; DATA XREF: 0000:07201o
1347 AF
1348 32 2C 62
134E 35
134F 7E
1350 11 48 60
1353 01 08 00
1358 A7
135C 22 7F 13
135C 3E 03
135E 21 B5 60
1361 CD 9F 30
136A 11 00 03
136A 11 00 03
136D CD 9F 30
1370 21 03
1370 21 03
1370 21 03
1370 21 03
1370 21 03
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1370 21 03
1370 21
                                                                                                xor
                                                                                                                       a
(unk_0_622C),
                                                                                                14
                                                                                                                     (unk_0_622C), a
hl, #lives_left
(hl)
a, (hl)
de, #p2_level_data
bc, #8
                                                                                                ld
dec
ld
                                                                                                ld
ld
ldir
                                                                                                and
                                                                                                                      a

NZ, loc_0_137F

a, #3

h1, #p2_score

sub_0_13CA

de, #0x303

queue_fg_vector_fn
                                                                                                jp
ld
ld
                                                                                                call
ld
call
ld
                                                                                                                                                                                                                                          ; display_message_03
                                                                                                                                                                                                                                           ; display_message_00
                                                                                                                       de, #0x300
                                                                                                                       queue_fg_vector_fn
hl, #VRAM_start+0x2D3
clear_14x5_HL
                                                                                                call
                                                                                                ld
call
                                                                                                                       hl, #eight_bit_countdown (hl), #0xCO; 'L'
                                                                                                ld
                                                                                                ld
                                                                                                inc
ld
                                                                                                                       hl
(hl), #0x11
                                                                                                ret
                                                  loc_0_137F:
                                                                                                                                                                                                                                           ; CODE XREF: 0000:1359<sup>†</sup>j
137F 0E 17
1381 3A 40 60
1384 A7
1385 C2 8A 13
                                                                                                                       c, #0x17
a, (p1_level_data)
                                                                                                                                                                                                                                            ; set to switch players?
                                                                                                1d
                                                                                                ld
and
                                                                                                                       NZ, loc_0_138A
                                                                                                jp
ld
 1388 0E 08
138A
138A
138A 79
                                                                                                                       c, #8
                                                  loc_0_138A:
                                                                                                                                                                                                                                           ; CODE XREF: 0000:1385†j
138A
138A 79
138B 32 0A 60
                                                                                                ld
                                                                                                ld
                                                                                                                       (main_sequencer), a
 138E C9
138F
138F
                                                                                                                                                                                                                                           ; DATA XREF: 0000:0722†o ; wait for 8-bit countdown
 138F
                                                  p1_game_over:
138F DF 1390 0E 17 1392 3A 48 60 1395 1395 34
                                                                                                ld
                                                                                                                       a, (p2_level_data)
                                                                                                ld
                                                                                                                                                                                                                                           ; CODE XREF: 0000:13A7-j
                                                  loc_0_1395:
                                                                                                                       (hl)
                                                                                                inc
and
                                                                                                                       NZ, loc_0_139C
c, #0x14
                                                  loc_0_139C:
                                                                                                                                                                                                                                           ; CODE XREF: 0000:1397<sup>†</sup> j
                                                                                                ld
ld
                                                                                                                       a, c
(main_sequencer), a
                                                                                                ret
                                                                                                                                                                                                                                           ; DATA XREF: 0000:0724 o ; wait for 8-bit countdown
                                                 p2 game over:
                                                                                                rst
                                                                                                                       0x18
                                                                                                                       c, #0x17
a, (p1_level_data)
loc_0_1395
                                                                                                ld
ld
                                                                                                jр
                                                                                                                                                                                                                                            ; DATA XREF: 0000:0726 o
                                                  set_flip_and_current_P2:
                                                                                                                                (upright)
                                                                                                ld
                                                                                                1d
                                                                                                                       (flipscreen), a
                                                                                                xor
ld
                                                                                                                        (main_sequencer), a
                                                                                                                                                                                                                                            ; reset ingame sequencer
                                                                                                ld
                                                                                                ld
                                                                                                                       (current_player_D), hl
                                                                                                                                                                                                                                           ; both current player flags to P2 \,
 13BB
set_flip_and_current_P1:
                                                                                                                                                                                                                                            ; DATA XREF: 0000:0728 o
                                                                                                xor
ld
                                                                                                                                                                                                                                           ; player 1
; player 1
; reset ingame sequencer
; default flipscreen
                                                                                                                       (current_player_D), a (current_player_E), a (main_sequencer), a
                                                                                                ld
                                                                                                ld
inc
                                                                                                                       (flipscreen), a
                                                                                                ld
                                                                                                ret
 13CA
13CA
13CA
13CA
                                                                                               SUBROUTINE
                                                                                                                                                                                                                                            ; CODE XREF: 0000:130F<sup>†</sup>p
; 0000:1361<sup>†</sup>p
 13CA
13CA 11 C6 61
                                                  sub_0_13CA:
                                                                                                                       de, #unk_0_61C6
(de), a
                                                                                                1d
13CD 12
                                                                                                ld
```

```
; return if attract mode
                                                         rst
13CE CF

13CF 13

13D0 01 03 00

13D3 ED B0

13D5 06 03

13D7 21 B1 61
                                                                      de
                                                         1d
                                                                      bc, #3
                                                         ldir
ld
                                                                      hl, #unk_0_61B1
                                                         1d
13DA
13DA
13DA 1B
                             loc_0_13DA:
                                                                                                                                           ; CODE XREF: sub_0_13CA+1F|j
13DB 1A
13DC 0F
13DD 0F
13DE 0F
                                                        ld
                                                                      a, (de)
                                                        rrca
                                                         rrca
13DF 0F
13E0 E6 0F
13E2 77
13E3 23
                                                        rrca
and
ld
                                                                       #0xF
                                                                       (hl), a
                                                         inc
                                                                      hl
13E3 23
13E4 1A
13E5 E6 0F
13E7 77
13E8 23
13E9 10 EF
13EB 06 0E
13ED
                                                        ld
and
ld
                                                                           (de)
                                                                      a, (de)
#0xF
(h1), a
                                                         inc
                                                                      loc_0_13DA
b, #0xE
                                                        djnz
ld
; CODE XREF: sub 0 13CA+26-i
                            loc_0_13ED:
                                                        ld
inc
                                                                      (hl), #0x10
hl
                                                                      n1
loc_0_13ED
(h1), #0x3F; '?'
b, #5
h1, #hs_tbl_5th+0x1D
de, #unk_0_61C7
                                                         djnz
                                                         14
                                                         ld
                                                         ld
ld
                             loc_0_13FC:
                                                                                                                                          ; CODE XREF: sub_0_13CA+51|j
                                                                      a, (de)
(hl)
                                                         ld
                                                         sub
inc
inc
ld
                                                                      a, (de)
a, (hl)
hl
                                                         sbo
                                                        inc
inc
ld
                                                                      de
                                                                      a, (de)
a, (hl)
                                                         sbc
                                                        ret
push
ld
                                                                      b, #0x19
                             loc_0_140A:
                                                                                                                                          ; CODE XREF: sub_0_13CA+47|j
                                                        ld
ld
ld
ld
                                                                      a, (de)
(hl), a
                                                                      a, c
(de), a
                                                         dec
dec
                                                                      hl
de
loc_0_140A
bc, #0xFFF5
hl, bc
de, hl
hl, bc
                                                        djnz
ld
                                                        add
ex
add
                                                                      de, hl
                                                         ex
                                                                      loc_0_13FC
                                                         ret
; End of function sub_0_13CA
                             draw_name_registered:
                                                                                                                                           ; DATA XREF: 0000:072A o
                                                        call
rst
call
                                                                      display_credits
                                                                                                                                           ; wait for 8-bit countdown
                                                                      clear_visible_area_and_sprites
                                                                      a, #0 (current_player_E), a
                                                        ld
ld
ld
ld
                                                                                                                                           ; player 1
; player 1
                                                                      (current_player_p), a
fl, #high_score_tbl_ram+0xlC
de, #0x22; '"'
b, #5
a, #1
                                                        ld
ld
ld
                             loc_0_1437:
                                                                                                                                           ; CODE XREF: 0000:143C-j
                                                                      (hl)
Z, loc_0_1459
hl, de
                                                         ср
                                                         jp
add
                                                                      h1, de
loc_0_1437
h1, #high_score_tbl_ram+0x10
                                                        djnz
ld
                                                         ld
ld
                                                                      b, #5
a, #3
                             loc_0_1445:
                                                                                                                                           ; CODE XREF: 0000:144A-j
                                                                       (hl)
                                                         ср
1446 CA 4F 14
1449 19
144A 10 F9
144C C3 75 14
                                                                      Z, loc_0_144F
hl, de
loc_0_1445
loc_0_1475
                                                        jp
add
djnz
144C C3 75 14
144F 144F 144F 144F 1451 32 0E 60
1454 32 0D 60
1457 3E 00 1457 3E 00
1459 12 6 60
1450 B6 22 7D
1460 3E 00 1462 32 09 60
1462 32 09 60
1462 32 00 60
1468 34 1469 11 0D 03
1462 86 86 87
                                                         jр
                             loc_0_144F:
                                                                                                                                           ; CODE XREF: 0000:1446 j
                                                         ld
                                                        ld
ld
                                                                       (current_player_E), a (current_player_D), a
                                                                                                                                           ; player 2
; player 2
                                                         ld
                                                                      a, #0
                             loc_0_1459:
                                                                                                                                           ; CODE XREF: 0000:1438 j
                                                         ld
                                                                      hl, #upright
                                                                      (hl)
(flipscreen), a
a, #0
(eight_bit_countdown), a
                                                         or
1d
                                                         ld
ld
                                                                      hl, #main_sequencer
(hl)
de, #0x30D
b, #0xC
                                                         ld
inc
                                                                                                                                           ; display_message_0D
                                                         ld
146E
146E
                            loc_0_146E:
                                                                                                                                           ; CODE XREF: 0000:1472-j
```

```
146E CD 9F 30
                                                                        call
146E CD 9F 30
1471 13
1472 10 FA
1475 1475
1475 1475
1475 28 27
1477 32 82 7D
1477 32 82 7D
1477 32 07 60
1470 32 07 60
1480 3E 00
1482 32 0A 60
1485 C9
1486 1486
1486 1486 CD 16 06
                                                                                          queue_fg_vector_fn
                                                                        djnz
ret
                                                                                          loc_0_146E
                                    loc_0_1475:
                                                                                                                                                                                 ; CODE XREF: 0000:144C1i
                                                                        ld
ld
                                                                                          a, #1 (flipscreen), a
                                                                                          (nmi_sequencer), a
(attract_mode_flag), a
                                                                        ld
                                                                        ld
ld
                                                                                                                                                                                 ; set attract mode flag
                                                                                          (main_sequencer), a
                                                                        ld
                                                                                                                                                                                 ; DATA XREF: 0000:072C1o
1486 CD 16 06 1489 21 09 60 148C 7E 148D A7 148E CZ DC 14 1491 32 86 7D 1499 36 0A 149E 23 149F 36 0A 149E 23 149A 36 10 14A4 23 14A5 36 1E
                                    do initials entry:
                                                                        call
ld
ld
                                                                                         display_credits
hl, #eight_bit_countdown
a, (hl)
                                                                        and
                                                                                         a
NZ, loc_0_14DC
(palette_bank), a
(palette_bank+1), a
(hl), #1
hl, #unk_0_6030
(hl), #0xA
                                                                        jp
ld
ld
ld
                                                                        ld
ld
                                                                        inc
                                                                                          hl
                                                                                          (hl), #0
                                                                        ld
inc
ld
                                                                                         hl
(hl), #0x10
14A4 23
14A5 36 1E
14A7 23
14A8 36 3E
14AA 23
14AB 36 00
14AD 21 E8 75
14B0 22 36 60
14B3 21 1C 61
14B6 3A 0C 60
14B9 07
14BA 3C
14BB 3C
14BB 4F
14BC 11 22 00
14BF 06 04
                                                                                          hl
                                                                        inc
                                                                                          (hl), #0x1E
                                                                        ld
inc
ld
                                                                                         hl (hl), #0x3E; '>'
                                                                        inc
                                                                                         hl (hl), #0
hl, #VRAM_start+0x1E8
(unk_0_6036), hl
hl, #high_score_tbl_ram+0x1C
a, (current_player_E)
                                                                        ld
ld
ld
                                                                        ld
                                                                        ld
rlca
                                                                                                                                                                                  ; 0/1
; 0/2
; 1/3
                                                                                         a
c, a
de, #0x22 ; '"'
b, #4
                                                                        inc
ld
                                                                        ld
ld
148F 06 04
14C1
14C1
14C1 7E
14C2 B9
14C3 CA C9 14
14C6 19
14C7 10 F8
14C9
                                     loc 0 14C1:
                                                                                                                                                                                 ; CODE XREF: 0000:14C7-i
                                                                        ld
                                                                                         a, (hl)
                                                                                          C
Z, loc_0_14C9
                                                                        ср
                                                                        jp
                                                                                          hl, de
loc_0_14C1
                                                                         add
                                                                        djnz
14C9
14C9 22 38 60
14CC 11 F3 FF
14CF 19
                                                                                                                                                                                 ; CODE XREF: 0000:14C3<sup>†</sup>j; point to high score
                                     loc 0 14C9:
                                                                                         (unk_0_6038), hl
de, #0xFFF3
hl, de
                                                                        14
                                                                        ld
                                                                        add
14D0 22 3A 60
14D3 06 00
14D5 3A 35 60
14D8 4F
                                                                        ld
ld
ld
                                                                                         (unk_0_603A), hl
b, #0
a, (unk_0_6035)
                                                                        ld
14D8 4F
14D9 CD FA 15
14DC
14DC
14DC 21 34 60
14DF 35
                                                                                         sub_0_15FA
                                                                        call
                                                                                                                                                                                 ; high score initial select sprite
                                                                                                                                                                                 ; CODE XREF: 0000:148E^j
                                     loc_0_14DC:
                                                                                         hl, #unk_0_6034
(hl)
NZ, loc_0_14FC
(hl), #0x3E; '>'
                                                                        ld
14DF 35
14E0 C2 FC 14
14E3 36 3E
14E5 2B
14E6 35
14E7 CA C6 15
14EA 7E
14EB 06 FF
14ED
14ED 04
14ED 04
14EE D6 0A
                                                                        dec
                                                                        jp
ld
                                                                        dec
dec
                                                                                          hl
                                                                                          (h1)
Z, loc_0_15C6
a, (h1)
                                                                        jp
ld
                                                                                         b, #0xFF
                                                                        1d
                                     loc_0_14ED:
                                                                                                                                                                                 ; CODE XREF: 0000:14F0|j
14ED 04
14EE D6 0A
14FE D6 0A
14FO D2 ED 14
14F3 C6 0A
14F5 32 52 75
14F8 78
14F9 32 72 75
14FC 14FC 14FC 21 30 60
14FF 46
1500 36 0A
1502 3A 10 60
1505 CB 7F
1507 C2 46 15
150A E6 03
                                                                        inc
                                                                        sub
jp
add
                                                                                          #0xA
                                                                                          NC, loc_0_14ED a, #0xA
                                                                                          (VRAM_start+0x152), a
                                                                        1d
                                                                        1d
                                                                                          (VRAM_start+0x172), a
                                     loc_0_14FC:
                                                                                                                                                                                ; CODE XREF: 0000:14E01i
                                                                                         h1, #unk_0_6030
b, (h1)
(h1), #0xA
a, (controller_in)
7, a
NZ, jump_pressed
                                                                        ld
ld
                                                                        ld
ld
                                                                                                                                                                                 ; edge-detected inputs
                                                                        bit
jp
and
                                                                                                                                                                                 ; button pressed?
; yes, skip
; left/right only
150C C2 14 15
150F 3C
1510 77
                                                                                         NZ, left_right_pressed
                                                                        jp
inc
                                                                                                                                                                                  ; yes, skip
                                                                                          a
(hl), a
loc_0_158A
1510 77
1511 C3 8A 15
                                                                        ld
                                                                        αĖ
                                     left_right_pressed:
                                                                                                                                                                                 ; CODE XREF: 0000:150C<sup>†</sup>j
1514 05
1514 05
1515 CA 1D 15
1518 78
1519 77
                                                                                         Z, loc_0_151D
a, b
(h1), a
loc_0_158A
                                                                        jp
ld
                                                                        ld
151A C3 8A 15
                                                                        jp
                                     loc 0 151D:
                                                                                                                                                                                 ; CODE XREF: 0000:1515<sup>†</sup> †
                                                                                         1, a
NZ, loc_0_1539
a, (unk_0_6035)
151D CB 4F
                                                                        bit
151D CB 4F
151F C2 39 15
1522 3A 35 60
1525 3C
1526 FE 1E
1528 C2 2D 15
152B 3E 00
                                                                        jp
ld
                                                                                         a
#0x1E
                                                                        inc
                                                                                         NZ, loc_0_152D
a, #0
                                                                        jp
ld
152D
                                    loc_0_152D:
                                                                                                                                                                                 ; CODE XREF: 0000:1528 j
```

```
15C6
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
                                                                                            (de), a
hl, #eight_bit_countdown
(hl), #0x80; 'Ç'
                                                                           ld
                                                                          inc
dec
                                                                                            hl
(hl)
                                                                                            (h1)
b, #0xC
h1, #VRAM_start+0x1E8
iy, (unk_0_603A)
de, #0xFFE0
                                                                           ld
15DF
                                     loc 0 15DF:
                                                                                                                                                                                      ; CODE XREF: 0000:15E6 - i
15DF 7E
15E0 FD 77 00
15E3 FD 23
15E5 19
15E6 10 F7
15E8 06 05
                                                                                             a, (hl)
0(iy), a
                                                                          ld
ld
                                                                                             iy
hl, de
loc_0_15DF
                                                                           inc
                                                                           add
                                                                          djnz
ld
                                                                                             b, #5
de, #0x314
15EA 11 14 03
                                                                           1d
                                                                                                                                                                                       ; display message 14
```

```
; CODE XREF: 0000:15F1|j
                                   loc_0_15ED:
 15ED CD 9F 30
                                                                     call
                                                                                     queue_fg_vector_fn
 15F0 13
15F1 10 FA
15F3 11 1A 03
15F6 CD 9F 30
                                                                                     de
loc_0_15ED
de, #0x31A
                                                                     djnz
ld
                                                                                                                                                                        ; display_message_1A
                                                                     call
                                                                                     queue_fg_vector_fn
 15F9
15F9
15F9 C9
                                                                                                                                                                        ; CODE XREF: 0000:158E<sup>†</sup>j; 0000:15B5<sup>†</sup>j
                                   locret_0_15F9:
 15F9
                                                                    ret
15FA
15FA
15FA
                                                                     SUBROUTINE
15FA
15FA
15FA D5
15FA
                                                                                                                                                                        ; CODE XREF: 0000:14D9\p; 0000:1533\p
                                    sub_0_15FA:
15FA BS
15FB E5
15FC CB 21
15FC CB 21
15FE 21 OF 36
1601 09
1602 EB
1603 21 74 69
1606 1A
1607 13
1608 77
1609 23
1600 36 72
1600 23
1600 36 0C
160F 23
1610 1A
1611 77
1612 E1
1613 D1
1614 C9
1614
                                                                     push
                                                                                     de
                                                                     push
sla
ld
                                                                                     hl
                                                                                     hl, #letter_coords
                                                                     add
                                                                                     hl, bc
                                                                     ex
ld
ld
                                                                                     de, hl
hl, #soft_sprite_ram+0x74
a, (de)
de
                                                                                                                                                                        ; sprite for initials entry
                                                                     inc
                                                                     ld
inc
ld
inc
                                                                                     (hl), a
                                                                                                                                                                        ; X coordinate
                                                                                      (hl), #0x72; 'r'
                                                                                                                                                                        ; tile
                                                                                     (hl), #0xC
hl
a, (de)
                                                                     ld
                                                                                                                                                                        ; palette
                                                                     inc
ld
                                                                                    a, (de)
(hl), a
                                                                     ld
                                                                                                                                                                        ; Y coordinate
                                                                                     hl
de
                                                                     pop
                                                                     pop
1614 C9

1614

1614

1615

1615

1615 C BD 30

1618 3A 27 62

1618 OF

161C D2 2F 16

161F 3A 88 63

1622 EF

1622 EF

1622 EF

1623 54 16

1625 70 16

1627 8A 16

1629 32 17

1628 57 17

1629 8E 17

162F
                                                                     ret
                                    ; End of function sub_0_15FA
                                    mario_pauline_reunion:
                                                                                                                                                                        ; DATA XREF: 0000:072E o
                                                                     call
                                                                                     sub_0_30BD
                                                                     1d
                                                                                     a, (level_type)
                                                                     rrca
                                                                                     NC, loc_0_162F
a, (unk_0_6388)
                                                                     jp
ld
                                                                                     a, (1
0x28
                                                                     rst
                                                                                                                                                                         ; qo!
                                                                     .dw loc_0_1654
.dw loc_0_1670
.dw loc_0_168A
.dw loc_0_1732
.dw loc_0_1757
.dw loc_0_178E
                                                                                                                                                                         ; Jump table
162F
162F
162F
162F 0F
                                                                                                                                                                         ; CODE XREF: 0000:161C|j
                                    loc_0_162F:
162F 0F
1630 D2 41 16
1633 3A 88 63
1636 EF
1637 A3 16
1639 BB 16
163B 32 17
163B 57 17
                                                                     rrca
                                                                     jp
ld
rst
                                                                                     NC, loc_0_1641
a, (unk_0_6388)
0x28
                                                                     .dw loc_0_16A3
                                                                                                                                                                         ; Jump table
1637 A3 16
1638 BB 16
1638 32 17
1635 57 17
1637 8E 17
1641
1641 1641
1641 CD BD 1D
1644 3A 88 63
1647 EF
                                                                     .dw loc_0_16BB
.dw loc_0_1732
                                                                      .dw
                                                                      .dw loc_0_1757
                                    loc_0_1641:
                                                                                                                                                                        ; CODE XREF: 0000:1630<sup>†</sup> j
                                                                                    sub_0_1DBD
a, (unk_0_6388)
0x28
                                                                     call
                                                                     rst
                                                                                                                                                                         ; go1
 1647
1648 B6 17
164A 69 30
164C 39 18
                                                                     .dw unk_0_17B6
.dw loc_0_3069
.dw loc_0_1839
                                                                                                                                                                         ; Jump table
164C 39 18

164E 6F 18

1650 80 18

1652 C6 18

1654

1654

1654 CD 08 17

1657 21 5C 38

165A CD 4E 00

165D 3E 20

165B 3E 09 60

166C 2

1662 21 88 63

1665 34

1666 3E 01

1668 F7

1669 21 0B 69

1660 FF
                                                                     .dw loc_0_186F
.dw loc_0_1880
.dw loc_0_18C6
                                    loc_0_1654:
                                                                                                                                                                        ; DATA XREF: 0000:162310
                                                                     call
                                                                                     sub_0_1708
                                                                                     hl, #kong_normal_spr
copy_sprites_2_11_data
                                                                     ld
                                                                     call
                                                                                     (eight_bit_countdown), a
                                                                     ld
                                    loc_0_1662:
                                                                                                                                                                        ; CODE XREF: 0000:16A0-j
                                                                                     hl, #unk_0_6388
(hl)
a, #1
0x30
                                                                     ld
                                                                     inc
                                                                     1d
                                                                     rst
ld
ld
                                                                                                                                                                         ; return if level bit not set
; sprite #2, x coord
; -4
                                                                                     hl, #soft_sprite_ram+0xB
166C OE FC
166E FF
166F C9
1670
1670
1670
1670
1670 DF
1671 21 32 39
1674 CD 4E 00
1677 3E 20
1679 32 09 60
1677 21 88 63
167F 34
1680 3E 04
1682 F7
1683 21 0B 69
1686 0E 04
1688 FF
1689 C9
1689 C9
                                                                                            #0xFC ;
                                                                                     c, #0
0x38
                                                                                                                                                                         ; subtract 4 from x coord for 10 sprites
                                                                                                                                                                        ; DATA XREF: 0000:1625\u00e10 o ; wait for 8-bit countdown
                                   loc_0_1670:
                                                                                     0x18
h1, #dk_throw_barrel_spr
copy_sprites_2_11_data
a, #0x20;;;
                                                                     rst
                                                                     ld
                                                                     call
                                                                     ld
ld
                                                                                     a, #0x20; (eight_bit_countdown), a
                                                                     ld
inc
ld
rst
                                                                                     hl, #unk_0_6388 (hl)
                                                                                     a, #4
0x30
                                                                                                                                                                         ; return if level bit not set
                                                                                     hl, #soft_sprite_ram+0xB
c, #4
0x38
                                                                     1d
                                                                                                                                                                            sprite #2, x coord
                                                                     ld
                                                                                                                                                                         ; add 4 to x coord for 10 sprites
                                                                     ret
 168A
 168A
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
                                                                                                                                                       ; DATA XREF: 0000:1627 o ; wait for 8-bit countdown
168A
                               loc_0_168A:
168A DF
168B DF 18C 38 168E CD 4E 00 1691 3E 66 1693 32 0C 69 1696 AF 1697 32 24 69 169A 32 2C 69 169A 0C 3 62 16 16A3 16A3 16A3
                                                              rst
                                                             ld
call
ld
                                                                            hl, #kong_climbing_spr
copy_sprites_2_11_data
a, #0x66 ; 'f'
                                                                             (soft_sprite_ram+0xC), a
                                                                                                                                                     ; sprite #3, y coord
                                                              1d
                                                                             (soft_sprite_ram+0x24), a
(soft_sprite_ram+0x2C), a
(unk_0_62AF), a
                                                              ld
ld
                                                              ld
                                                                             loc_0_1662
16A3
16A3 CD 08 17
16A6 3A 10 69
16A9 D6 3B
                                loc_0_16A3:
                                                                                                                                                       ; DATA XREF: 0000:1637 o
                                                              call
ld
sub
                                                                             sub_0_1708
                                                                            aub_U_1/U8
a, (soft_sprite_ram+0x10)
#0x3B ; ';'
                                                                                                                                                       ; sprite #4, y coord
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
                                                              ld
call
ld
                                                                            hl, #kong_normal_spr
copy_sprites_2_11_data
hl, #soft_sprite_ram+8
                                                                                                                                                       ; sprite #2, y coord
                                                              ld
                                                                             c, a
0x38
                                                                            hl, #unk_0_6388
(hl)
                                                              rst
ld
                                                                                                                                                        ; add C to y coord for 10 sprites
16BA C9
                                                              ret
16BB
16BB
16BB
                                loc_0_16BB:
                                                                                                                                                       ; DATA XREF: 0000:1639 o
16BB AF
16BC 32 A0 62
16BF 3A A3 63
16C2 4F
                                                              xor
                                                              ld
ld
ld
                                                                             (unk_0_62A0), a
a, (unk_0_63A3)
c, a
16C2 4F
16C3 3A 10 69
16C6 FE 5A
16C8 D2 E1 16
16CB CB 79
                                                                                   (soft_sprite_ram+0x10)
                                                              ld
                                                                                                                                                       ; sprite #4, y coord
                                                              ср
                                                                             NC, loc_0_16E1
                                                              jp
bit
                                                                            7, c
Z, loc_0_16D5
16CD CA D5 16
16D0
16D0
                                                              jp
                                loc_0_16D0:
                                                                                                                                                       ; CODE XREF: 0000:16E8|j
16D0
16D0 3E 01
16D2 32 A0 62
16D5
16D5 CD 02 26
                                                              ld
                                                                             (unk_0_62A0), a
                                                                                                                                                       ; CODE XREF: 0000:16CD<sup>†</sup>j; 0000:16EB<sup>†</sup>j
                                loc 0 16D5:
16D5
16D8 3A A3 63
                                                              call
ld
                                                                             sub_0_2602
a, (unk_0_63A3)
16DB 4F
16DC 21 08 69
16DF FF
16E0 C9
                                                              ld
                                                                                    #soft_sprite_ram+8
                                                                                                                                                       ; sprite #2, y coord
; add C to y coord for 10 sprites
                                                              14
                                                              rst
                                                              ret
16E1
16E1
16E1
16E1 FE 5D
                                loc_0_16E1:
                                                                                                                                                        ; CODE XREF: 0000:16C8 j
                                                                             #0x5D ; ']
                                                              ср
                                                                             C, loc_0_16EE
16E3 DA EE 16
16E6 CB 79
16E8 CA DO 16
16EB C3 D5 16
                                                              jp
bit
                                                                             Z, loc_0_16D0
loc_0_16D5
                                                              jр
16EE
16EE
16EE
                                loc_0_16EE:
                                                                                                                                                       ; CODE XREF: 0000:16E3 j
16EE 21 8C 38 16F1 CD 4E 00 16F4 3E 66 16F6 32 0C 69 16F9 AF 16FA 32 24 69 1700 32 AF 62 1703 21 88 63 1706 34 1707 C9 1708
                                                                             hl, #kong climbing spr
                                                              ld
                                                              call
ld
ld
                                                                             copy_sprites_2_11_data
                                                                             a, #0x66; 1
(soft_sprite_ram+0xC), a
                                                                                                                                                       ; sprite #4, x coord
                                                              xor
                                                                            a
(soft_sprite_ram+0x24), a
(soft_sprite_ram+0x2C), a
(unk_0_62AF), a
hl, #unk_0_6388
(hl)
                                                              ld
ld
ld
                                                              ld
                                                             inc
1708
1708
1708
1708
                                                             SUBROUTINE
                                                                                                                                                        ; CODE XREF: 0000:16541p
                               sub 0 1708:
1708 CD 1C 01
1708
170B 21 20 6A
                                                                                                                                                        ; 0000:16A31p
                                                              call
ld
ld
                                                                            stop_sound
hl, #soft_sprite_ram+0x120
(hl), #0x80; 'C'
170E 36 80
1710 23
1711 36 76
1713 23
                                                                            hl (hl), #0x76; 'v'
                                                              ld
1713 23
1714 36 09
1716 23
1717 36 20
1719 21 05 69
171C 36 13
171E 21 C4 75
1721 11 20 00
1724 3E 10 05
                                                              inc
ld
                                                                             (hl), #9
                                                                            hl
(hl), #0x20; ''
                                                                            (h1), #0x20; ''
hl, #soft_sprite_ram+5
(h1), #0x13
hl, #VRAM_start+0x1C4
de, #0x20; ''
a, #0x10
display_3_tiles_HL
hl, #unk_0_608A
(h1), #7
hl
                                                                                                                                                       ; sprite #1, flipy & code
; pauline, front-on
                                                              ld
ld
                                                              ld
ld
ld
1724 3E 10
1726 CD 14 05
1729 21 8A 60
172C 36 07
172E 23
                                                              call
ld
                                                              inc
172F 36
1731 C9
1731
         36 03
                                                             1d
                                                                             (hl), #3
                                ; End of function sub_0_1708
1731
1732
1732
1732
                                                                                                                                                        ; DATA XREF: 0000:1629 o
                                loc 0 1732:
```

; 0000:163B1o

; sprite #0, y coord ; sprite #1, y coord ; sprite #3, y coord

1732 CD 6F 30

call ld

cp ret xor ld

ld ld ld ld

ld

NC

sub_0_306F
a, (soft_sprite_ram+0x13)
#0x2C ; ','

(soft_sprite_ram+0x24), a

(soft_sprite_ram+0x2C), a

1732 CD 6F 30 1732 1735 3A 13 69 1738 FE 2C 173A DO 173B AF 173C 32 00 69 173F 32 04 69 1742 32 0C 69 1745 3E 6B 1747 32 24 69 174A 3D

174A 3D 174B 32 2C 69

```
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```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
                                                                                                                                           hl, #soft_sprite_ram+0x121 (hl)
  174E 21 21 6A
                                                                                                                 ld
  1751 34
1752 21 88 63
1755 34
1756 C9
                                                                                                                 inc
                                                                                                                                           hl, #unk_0_6388
(hl)
                                                                                                                ld
inc
ret
  1757
1757
1757 CD 6F 30
                                                                                                                                                                                                                                                                                  ; DATA XREF: 0000:162B\u00e10 o ; 0000:163D\u00e10 o
                                                           loc_0_1757:
                                                                                                                                           sub_0_306F
sub_0_176C
hl
                                                                                                                 call
  175A CD 6C 17
175D 23
175E 13
                                                                                                                call
inc
inc
                                                                                                                                           de
                                                                                                                                          ae au_0_1783
a, #0x40; '@'
(eight_bit_countdown), a
h1, #unk_0_6388
(h1)
  175F CD 83 17
1762 3E 40
1764 32 09 60
1767 21 88 63
                                                                                                                 call
ld
ld
                                                                                                                 ld
 1767 21
176A 34
176B C9
176C
176C
176C
                                                                                                                SUBROUTINE
                                                                                                                                                                                                                                                                                  ; CODE XREF: 0000:175A1p
                                                          sub 0 176C:
 176C
176C 11 03 00
176F 21 2F 69
1772 06 0A
1774
1774
                                                                                                                 ld
                                                                                                                                           de, #3
                                                                                                                                           hl, #soft_sprite_ram+0x2F
b, #0xA
                                                                                                                 ld
ld
                                                                                                                                                                                                                                                                                   ; CODE XREF: sub_0_176C+14 | j
                                                           loc_0_1774:
 1774
1774 A7
1775 7E
1776 ED 52
1778 FE 19
177A D2 7F 17
177D 36 00
177F
                                                                                                                 and
ld
                                                                                                                                           a, (hl)
hl, de
#0x19
                                                                                                                 sbc
                                                                                                                 cp
jp
ld
                                                                                                                                           NC, loc_0_177F (hl), #0
                                                          loc_0_177F:
                                                                                                                                                                                                                                                                                  ; CODE XREF: sub_0_176C+Efj
                 2B
10 F2
                                                                                                                djnz
                                                                                                                                           loc_0_1774
  1782 C9
                                                                                                                ret
                                                           ; End of function sub_0_176C
  1783
1783
1783
                                                                                                               SUBROUTINE!
                                                          sub_0_1783:
                                                                                                                                                                                                                                                                                  ; CODE XREF: 0000:175ffp
  1783 06 0A
                                                                                                                 14
                                                                                                                                           b. #0xA
  1785
1785
1785
1785
                                                           loc_0_1785:
                                                                                                                                                                                                                                                                                  ; CODE XREF: sub_0_1783+8|j
                                                                                                                                           a, (hl)
                                                                                                                 ld
  1786 A7
1787 C2 26 00
178A 19
                                                                                                                 and
                                                                                                                                           NZ, pop_hl_ret
hl, de
                                                                                                                 jp
add
178B 10 F8
178D C9
178D
178D
                                                                                                                                           loc_0_1785
                                                                                                                 djnz
                                                           ; End of function sub_0_1783
 178E
178E
178E
178E DF
                                                           loc_0_178E:
                                                                                                                                                                                                                                                                                        DATA XREF: 0000:162D\o
                                                                                                                                                                                                                                                                                   ; 0000:163F\o; wait for 8-bit countdown
  178E
                                                                                                                 rst
                                                                                                                                           0x18
  178F 2A 2A 62
1792 23
1793 7E
1794 FE 7F
                                                                                                                ld
inc
                                                                                                                                           hl, (seq_data)
hl
                                                                                                                                          hl

a, (hl)

#0x7F; ''

NZ, loc_0_179D

hl, #level_seq_2

a, (hl)
                                                                                                                 ld
                                                                                                                 cp
jp
ld
1794 FE 7F
1796 C2 9D 17
1799 21 73 3A
179C 7E
179D 179D 179D 22 2A 62
17AO 32 27 62
17AO 4D 9F 30
17AA 6CD 9F 30
17AA 32 88 63
                                                                                                                                                                                                                                                                                   ; restart repeating levels?
                                                                                                                                                                                                                                                                                  ; no, skip
; repeating levels
; get new level
                                                                                                                 ld
                                                                                                                                                                                                                                                                                  ; CODE XREF: 0000:1796 j
                                                           loc_0_179D:
                                                                                                                 ld
                                                                                                                                           (seq_data), hl
                                                                                                                                           (level_type), a
de, #0x500
queue_fg_vector_fn
                                                                                                                 ld
                                                                                                                ld
call
                                                                                                                                                                                                                                                                                  ; update_bonus_timer
17A9 AF

17AA 32 88 63

17AD 21 09 60

17B0 36 30

17B2 23

17B3 36 08

17B5 C9

17B5 00
                                                                                                                 xor
                                                                                                                ld
ld
ld
                                                                                                                                           (unk_0_6388), a
hl, #eight_bit_countdown
(hl), #0x30; '0'
                                                                                                                 inc
                                                                                                                                            (hl), #8
                                                                                                                 ld
                                                                                                                                                                                                                                                                                   ; sequencer = how high screen
1786 00
1787 0
1788 01
1787 CD 1C 01
1788 21 8A 60
1780 36 02
1787 23 10
1702 3E 10
1704 11 20 00
1707 21 23 76
170A CD 14 05
170D 21 83 75
170D 02 14 05
170D 02 14 05
170D 02 14 05
170D 02 15 07
170B 02 26 18
1709 11 47 3A
170C CD A7 0D
170F 21 05 76
170E 02 18 37
170F 21 05 76
170E 02 18 37
170F 21 05 76
170E 02 18 37
170E 02 04 70
170E 02 05 18
170E 11 40 3A
170E 02 07 07
170E 02 07 07
170E 03 07
17
                                                           unk 0 17B6:
                                                                                                                 .db
                                                                                                                                                                                                                                                                                  ; DATA XREF: 0000:1648 o
                                                                                                                                       0;
                                                                                                                call
                                                                                                                                           stop_sound
                                                                                                                                           hl, #unk_0_608A
(hl), #0xE
                                                                                                                 ld
ld
                                                                                                                                          (h1), #0xE
h1
(h1), #3
a, #0x10
de, #0x20;
h1, #VRAM_start+0x223
display_3_tiles_HL
h1, #VRAM_start+0x183
                                                                                                                ld
ld
                                                                                                                                                                                                                                                                                   ; <space>
                                                                                                                ld
ld
call
ld
                                                                                                                                                                                                                                                                                   ; inc by column
                                                                                                                                          nl, #VKAM_start+Ux183
display_3 tiles_HI
hl, #VRAM_start+Ox2DA
clear_14x5_HL
de, #draw_data_rivet_endl
draw_level_background
hl, #VRAM_start+Ox2D5
clear_14x5_HL
                                                                                                                call
ld
call
ld
17D6 CD 26
17D9 11 47
17DC CD A7
17DF 21 D5
17E2 CD 26
17E5 11 4D
17E8 CD A7
17EB 21 D0
17EE CD 26
17F1 11 53
17F4 CD A7
17F7 21 CB
17F7 CD 26
17FA CD 26
                                                                                                                call
ld
call
ld
                                                                                                                                          clear_14x5_HL
de, #draw_data_rivet_end2
draw_level_background
hl, #VRAM_start+0x2D0
clear_14x5_HL
de, #draw_data_rivet_end3
draw_level_background
hl, #VRAM_start+0x2CB
clear_14x5_HL
                                                                                                                call
ld
call
ld
                                                                                                                call
ld
call
                                     0D
76
18
3A
0D
38
                                                                                                                                           clear_14x5_HL
                                                                                                                ld
call
ld
                                                                                                                                           de, #draw_data_rivet_end4
draw_level_background
hl, #kong_normal_spr
  1800 CD A7
1803 21 5C
```

call ld

copy_sprites_2_11_data hl, #soft_sprite_ram+8

; sprite #2, y coord

1806 CD 4E 00

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
180C OE 44
                                                                                  c, #68
                                                                  ld
                                                                                                                                                                   ; 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 181B 32 90 63 181E 21 34
180E FF
                                                                  rst
                                                                                   0x38
                                                                  ld
ld
ld
                                                                                  hl, #soft_sprite_ram+5
(hl), #0x13
a, #0x20;
                                                                                  (eight_bit_countdown), a
                                                                  ld
                                                                  ld
ld
ld
                                                                                   (kong_thrash_tmr), a
                                                                                  hl, #unk_0_6388 (hl)
1821 34
1822 22 C0 63
1825 C9
1826
                                                                  inc
ld
                                                                                   (unk_0_63C0), hl
                                                                  ret
1826
1826
1826
                                                                 SUBROUTINE
                                                                                                                                                                   ; CODE XREF: 0000:13221p
                                  clear 14x5 HL:
1826
1826 11 DB FF
1826
1829 OE OE
                                                                                                                                                                   ; 0000:1373<sup>p</sup> ...
                                                                                  de, #0xFFDB
                                                                  ld
ld
                                                                                  c, #0xE
a, #0x10
182B 3E 10
                                                                  ld
                                                                                                                                                                   ; <space>
182D
182D
182D 06 05
                                  loc_0_182D:
                                                                                                                                                                   ; CODE XREF: clear_14x5_HL+F|j
                                                                  ld
                                                                                  b, #5
182D 06 05

182F

182F

182F 77

1830 23

1831 10 FC

1833 19

1834 0D

1835 C2 2D 18
                                                                                                                                                                   ; CODE XREF: clear_14x5_HL+B|j
; display space
                                  loc_0_182F:
                                                                                   (hl), a
                                                                  inc
                                                                                  hl
                                                                                                                                                                      next row
                                                                                  loc_0_182F
                                                                  ding
                                                                  add
dec
jp
                                                                                  NZ, loc_0_182D
                                                                                                                                                                   ; loop through 14 columns
1838 C9
1838
1838
1839
                                  ret; End of function clear_14x5_HL
1839 1839 1839 21 90 63 183C 34 183D CA 59 18 1840 7E 1841 E6 07 1843 CO 1844 11 CF 39 1847 CB 5E 1849 20 03 1848 11 F7 39 1845
                                   loc_0_1839:
                                                                                                                                                                  ; DATA XREF: 0000:164C\u00e10
                                                                                  hl, #kong_thrash_tmr
                                                                  ld
                                                                                  (hl)
Z, loc_0_1859
a, (hl)
#7
                                                                  inc
                                                                   jp
ld
                                                                  and
                                                                  ret
                                                                                  NZ
                                                                                  de, #0x39CF
3, (h1)
NZ, loc_0_184E
de, #0x39F7
                                                                  ld
bit
                                                                  jr
ld
184E
184E
184E EB
                                  loc_0_184E:
                                                                                                                                                                  ; CODE XREF: 0000:1849<sup>†</sup>j
                                                                  ex
                                                                                  de, hl
184E EB
184F CD 4E 00
1852 21 08 69
1855 0E 44
1857 FF
1858 C9
1859
                                                                  call
ld
ld
                                                                                  copy_sprites_2_11_data
hl, #soft_sprite_ram+8
c, #68
                                                                                                                                                                   ; sprite #2, y coord
                                                                                  c, # 0x38
                                                                                                                                                                   ; add 68 to y coord for 10 sprites
                                                                  rst
1859
1859
185C
185F
                                  loc_0_1859:
                                                                                                                                                                  ; CODE XREF: 0000:183D<sup>†</sup> †
1859 21 5C 38 185C CD 4E 00 185F 21 08 69 1862 0E 44 1864 FF 1865 3E 20 1867 32 09 60 186A 21 88 63 186D 34 186E C9 186F
                                                                  ld
call
ld
                                                                                  hl, #kong_normal_spr
copy_sprites_2_11_data
hl, #soft_sprite_ram+8
c, #68
                                                                                                                                                                  ; sprite #2, y coord
                                                                                  c, #68
0x38
a, #0x20; ''
''+ bit_cou
                                                                  ld
                                                                  rst
ld
                                                                                                                                                                   ; add 68 to y coord for 10 sprites
                                                                                  a, #0x20 ; ' '
(eight_bit_countdown), a
h1, #unk_0_6388
(h1)
                                                                  ld
                                                                  ld
inc
ret
186F
186F
186F
186F DF
1870 21 1F 3A
1873 CD 4E 00
1876 3E 03
1878 32 84 60
                                  loc_0_186F:
                                                                                                                                                                  ; DATA XREF: 0000:164E\u00e1o
; wait for 8-bit countdown
                                                                                  0x18
hl, #fk_falling_spr
copy_sprites_2_l1_data
a, #3
(digital_snd_tmr_kong_fall), a
                                                                  rst
                                                                  1d
                                                                  call
ld
                                                                                                                                                                   ; tmr=3
                                                                  ld
1878 32 84 60

187B 21 88 63

187E 34

187F C9

1880

1880

1880

1880 21 0B 69
                                                                  ld
inc
                                                                                  hl, #unk_0_6388
(hl)
                                                                  ret
                                  loc_0_1880:
                                                                                                                                                                      DATA XREF: 0000:1650 o
                                                                  ld
                                                                                  hl, #soft sprite ram+0xB
                                                                                                                                                                   ; sprite #2, x coord
1883 0E 01

1885 FF

1886 3A 1B 69

1889 FE D0

1888 C0

1888 3E 20

188E 3E 20

1891 21 24 6A

1894 36 7F

1896 2C

1897 36 39

1899 2C

1893 36 01

189C 2C

189D 36 D8

189C 2C

189D 36 D8

189E 21 C6 76

18A2 CD 26 18

18A5 11 5F 3A

18A8 CD A7 0D

18A8 B 11 04 00
1883 OE 01
                                                                                  C, #1
0x38
a, (soft_sprite_ram+0x1B)
#0xD0 ; 'ŏ'
                                                                  ld
                                                                  rst
ld
                                                                                                                                                                   ; add 1 to x coord for 10 sprites
                                                                  cp
ret
                                                                                  NZ
                                                                  ld
ld
ld
                                                                                  a, #0x20 ; ' '
(soft_sprite_ram+0x19)
                                                                                  hl, #soft_sprite_ram+0x124
(hl), #0x7F; ' '
                                                                  ld
inc
ld
                                                                                   (hl), #0x39 ; '9'
                                                                  inc
                                                                  ld
inc
ld
                                                                                   (hl), #1
                                                                                   1
(hl),
#'
                                                                                              #0xD8 ; 'Ï'
                                                                                  hl, #VRAM_start+0x2C6
clear_14x5_HL
de, #draw_data_rivet_end5
                                                                  ld
                                                                  call
ld
call
                                                                                  draw level background
18A8 CD A7 0D
18AB 11 04 00
18AB 11 04 00
18BE 01 28 02
18B1 21 03 69
18B4 CD 3D 00
18B7 3E 00
18B9 32 AF 62
18BC 3E 03
18BE 3E 03
18BE 3E 03
18C4 34
18C5 C9
                                                                                  de, #4
bc, #0x228
hl, #soft_sprite_ram+3
                                                                  ld
                                                                  ld
ld
```

call

ld ld

ld ld inc ret

1806 18C6 loc_0_3D a, #0 (unk_0_62AF), a

____ai__snd_tm:
hl, #unk_0_6388
(hl)

a, #3 (digital_snd_tmr_thump), a

; sprite #0, x coord

; tmr=3

```
; DATA XREF: 0000:1652\u00e90
                                 loc_0_18C6:
18C6 21 AF 62
                                                                  1d
                                                                                  hl, #unk_0_62AF
                                                                                 (h1)
Z, loc_0_193D
a, (h1)
#7
18C9 35
18CA CA 3D 19
18CD 7E
18CE E6 07
                                                                  and
18D0 C0
18D1 21 25 6A
18D4 7E
                                                                  ret
                                                                                  NZ.
                                                                                 NZ
hl, #soft_sprite_ram+0x125
a, (hl)
#0x80; 'C'
(hl), a
hl, #soft_sprite_ram+0x19
b, (hl)
5, b
                                                                  ld
ld
18D4 7E
18D5 EE 80
18D7 77
18D8 21 19 69
18DB 46
                                                                  xor
ld
ld
ld
18DC CB A8
18DE AF
18DF CD 09 30
18E2 F6 20
                                                                  res
xor
call
                                                                                  sub_0_3009
                                                                  or
                                                                                  #0x20 ;
18E4 77
18E5 21 AF 62
18E8 7E
                                                                  ld
ld
ld
                                                                                  (hl), a
hl, #unk_0_62AF
                                                                                 h1, #unk_0_6
a, (h1)
#0xE0; 'Ó'
18E9 FE E0
                                                                  cp
jp
ld
ld
ld
ld
18EB C2 10 19
18EE 3E 50
18F0 32 4F 69
                                                                                 NZ, loc_0_1910
a, #0x50; 'P'
                                                                                  (soft_sprite_ram+0x4F), a
18F3 3E 00
18F5 32 4D
18F8 3E 9F
18F3 3E 00

18F5 32 4D 69

18F8 3E 9F

18FA 32 4C 69

18FD 3A 03 62

1900 FE 80

1902 D2 0F 1905

1905 3E 80

1907 32 4D 69

1907 32 4C 69

190F 5
                                                                                  (soft_sprite_ram+0x4D), a
                                                                                  a, #0x9F; 'f'
(soft_sprite_ram+0x4C), a
                                                                  ld
ld
                                                                                 a, (mario_y_coord)
#0x80; 'C'
NC, loc_0_190F
a, #0x80; 'C'
                                                                  ср
                                                                  jp
ld
                                                                                 (soft_sprite_ram+0x4D), a
                                                                  ld
ld
ld
                                                                                 (soft_sprite_ram+0x4C), a
190F
190F 7E
1910
                                 loc_0_190F:
                                                                                                                                                                 ; CODE XREF: 0000:1902|j
                                                                                 a, (hl)
                                                                  ld
1910
1910 FE CO
1912 CO
1913 21 8A 60
1916 36 OC
1918 3A 29 62
191B OF
191C 38 02
191E 36 05
                                                                                                                                                                 ; CODE XREF: 0000:18EB1i
                                 loc 0 1910:
                                                                                  #0xC0 ; (L)
                                                                  cp
ret
                                                                                 NZ
hl, #unk_0_608A
                                                                  1d
                                                                  ld
                                                                                  (hl)
                                                                  ld
rrca
                                                                                 a, (level)
                                                                                       loc_0_1920
                                                                  jr
ld
                                                                                  (hl),
191E 36 05
1920
1920 2
1920 23
1921 36 03
1921 36 03
1923 21 23 6A
1926 36 40
1928 2B
1929 36 09
192B 2B
192C 36 76
192E 2B
                                 loc_0_1920:
                                                                                                                                                                ; CODE XREF: 0000:191C|j
                                                                  ld
ld
ld
                                                                                 (h1), #3
h1, #soft_sprite_ram+0x123
(h1), #0x40; '@'
                                                                  dec
ld
dec
ld
                                                                                  (hl), #9
                                                                                 hl
(hl), #0x76; 'v'
192C 36 76
192E 2B
192F 36 8F
1931 3A 03 62
1934 FE 80
1936 D0
1937 3E 6F
1939 32 20 6A
193C C9
193D
193D
193D
193D
193D
                                                                  dec
ld
ld
                                                                                 hl (hl), #0x8F; 'Å'
a, (mario_y_coord)
#0x80; 'Ç'
                                                                  cp
ret
                                                                                  NC
                                                                                      #0x6F ; 'o'
                                                                  ld
ld
                                                                                 a, #0x6F; 'o'
(soft_sprite_ram+0x120), a
                                                                  ret
                                 loc_0_193D:
                                                                                                                                                                ; CODE XREF: 0000:18CA j
193D 2A 2A 62
1940 23
1941 7E
1942 FE 7F
                                                                  ld
                                                                                  hl, (seq_data)
                                                                                  hl
                                                                                 hl

a, (hl)

#0x7F; ''

NZ, loc_0_194B

hl, #level_seq_2

a, (hl)
                                                                                                                                                                  ; restart repeating levels?
                                                                  ср
1944 C2 4B 19
1947 21 73 3A
194A 7E
194B
                                                                                                                                                                  ; no, skip
; start repeating levels
; get new level
                                                                  ld
194B
194B
22 2A 62
194E 32 27 62
1951 21 29 62
1954 34
1955 11 00 05
1958 CD 9F 30
                                  loc_0_194B:
                                                                                                                                                                 ; CODE XREF: 0000:1944<sup>†</sup>j
                                                                                  (seq_data), hl
(level_type), a
                                                                  ld
ld
                                                                                 h1, #level
(h1)
de, #0x500
queue_fg_vector_fn
                                                                  ld
                                                                  inc
ld
call
                                                                                                                                                                 ; next level counter
; update_bonus_timer
195B AF
                                                                  xor
195B AF
195C 32 2E 62
195F 32 88 63
1962 21 09 60
1965 36 E0
1967 23
1968 36 08
196A C9
                                                                                  (unk_0_622E), a
(unk_0_6388), a
                                                                  ld
ld
                                                                                 hl, #eight_bit_countdown
(hl), #0xE0; 'O'
                                                                  ld
ld
                                                                  ld
                                                                                  (hl), #8
                                                                                                                                                                 ; set how high screen
                                                                  ret
196B
196B
196B
196B CD 52 08
                                  loc_0_196B:
                                                                                                                                                                  ; DATA XREF: 0000:0730\(\)o
                                                                  call
                                                                                  clear tiles and sprites
196E 3A 0E 60
1971 C6 12
1973 32 0A 60
1976 C9
                                                                 ld
add
ld
                                                                                  a, (current_player_E)
a, #18
                                                                                                                                                                 ; 0/1
                                                                                  (main_sequencer), a
                                                                                                                                                                 ; 18/19
                                                                  ret
1977
1977
1977
1977 CD EE 21
197A
                                                                                                                                                                 ; DATA XREF: 0000:074E10
                                 attract_mode_gameplay:
                                                                  call
                                                                                 next_attract_action
                                                                                                                                                                  ; DATA XREF: 0000:071A o
                                 gameplay:
197A CD BD 1D 197D CD 8C 1E 1980 CD C3 1A 1983 CD 72 1F 1986 CD 8F 2C 1986 CD ED 30 198F CD 04 2E 1992 CD EA 24
                                                                                  sub_0_1DBD
sub_0_1E8C
sub_0_1AC3
sub_0_1F72
                                                                  call
                                                                                                                                                                  ; another jump table
                                                                  call
call
                                                                  call
                                                                                  sub_0_2C8F
                                                                  call
                                                                                  sub_0_2C03
sub_0_30ED
sub_0_2E04
                                                                                                                                                                  ; process fireballs?
; process springs
                                                                  call
                                                                                  sub_0_24EA
sub_0_2DDB
1992 CD EA 24
                                                                  call
1995 CD DB 2D
                                                                  call
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
1998 CD D4 2E
1998 CD 07 22
199E CD 33 1A
19A1 CD 85 46 1F
19A4 CD FA 26
19AA CD F2 25
19AD CD DA 19
19BO CD FB 03
19B3 CD 08 28
19B6 CD 1D 28
19B6 CD 1D 28
19B6 CD 07 1E
19BC CD 07 1 E
                                                            call
                                                                          sub_0_2ED4
                                                                          sub_0_2207
sub_0_1A33
sub_0_2A85
sub_0_1F46
                                                            call
                                                            call
call
                                                                          sub_0_26FA
sub_0_25F2
sub_0_19DA
                                                            call
                                                            call
call
                                                                          animate_kong_and_pauline
                                                            call
call
                                                                          sub_0_2808
sub_0_281D
sub_0_1E57
sub_0_1A07
                                                            call
19BF CD CB 2F
19C2 00
19C3 00
19C4 00
                                                            call
nop
nop
                                                                          sub_0_2FCB
19C4 00
19C5 3A 00 62
19C8 A7
19C9 C0
19CA CD 1C 01
19CD 21 82 60
19D0 36 03
19D2
19D2
19D2 21 0A 60
19D6 2B
19D7 36 40
19D9 C9
19DA
19DA
19DA
                                                            nop
ld
and
                                                                          a, (mario_alive_flag)
                                                                                                                                                   ; mario alive?
; yes, return
                                                                          NZ
                                                            ret
                                                                          stop_sound
hl, #digital_snd_tmr_thump
(hl), #3
                                                            call
                                                            ld
                                                            ld
                                                                                                                                                    ; tmr=3
                                                                                                                                                   ; CODE XREF: 0000:1A30-i
                               loc_0_19D2:
                                                                          hl, #main_sequencer
                                                            ld
inc
dec
                                                                                                                                                    ; next sequence ; 8-bit countdown
                                                                          hl
                                                                           (hl), #64
                                                            14
                                                                                                                                                    ; set counter
                                                            ret
                                                            SUBROUTINE
19DA
19DA
19DA
19DA
19DA 3A 03 62
19DD 06 03
19DF 21 0C 6A
19E2
                               sub_0_19DA:
                                                                                                                                                    ; CODE XREF: 0000:19AD\p
                                                                          a, (mario_y_coord)
                                                            ld
                                                            ld
                                                            ld
                                                                          hl, #soft_sprite_ram+0x10C
19E2
19E2 BE
19E3 CA ED 19
19E6 2C
19E7 2C
19E8 2C
19E8 2C
19E9 2C
19EA 10 F6
19EC C9
19ED
19ED
                                                                                                                                                   ; CODE XREF: sub 0 19DA+10-i
                               loc 0 19E2:
                                                                           (h1)
                                                                          Z, loc_0_19ED
                                                            jр
                                                            inc
inc
inc
inc
                                                            djnz
                                                                          loc_0_19E2
19ED 3A 05 62 19F0 2C 19F1 2C 19F2 2C 19F4 CO 19F5 2D 19F5 2D 19F6 2D 19F7 CB 5E 19F9 CO 19F5 AF 19F8 AF 19FF AF 19FF AF 1AO2 3C 1AO3 32 40 63 1AO6 C9
                               loc_0_19ED:
                                                                                                                                                   ; CODE XREF: sub 0 19DA+91;
19ED
                                                                          a, (mario_x_coord)
1
                                                            ld
inc
inc
                                                            inc
                                                            cp
ret
dec
                                                                           (hl)
                                                                          NZ
                                                            dec
bit
ret
dec
ld
                                                                          (unk_0_6343), hl
                                                            xor
ld
                                                                           (unk_0_6342), a
                                                            inc
                                                            14
                                                                           (unk_0_6340), a
1A06 C9
1A06
                               ret; End of function sub_0_19DA
1A06
1A06
1A07
1A07
1A07
1A07
1A07
1A07 3A 86 63
1A0A EF
                                                           SUBROUTINE
                               sub_0_1A07:
                                                                                                                                                   ; CODE XREF: 0000:19BC\p
                                                            ld
                                                                                (unk_0_6386)
                                                                          a, (10x28
1A0A EF
1A0B 1E 1A
1A0D 15 1A
1A0F 1F 1A
1A11 2A 1A
1A13 00 00
1A15
1A15
1A15
1A15
1A15 AF
1A16 32 87 63
1A19 3E 02
1A1B 32 86 63
1A1E
1A1E
1A1E C9
                                                            rst
                                                                                                                                                    ; go!
                                                            .dw locret_0_1A1E
.dw loc_0_1A15
.dw loc_0_1A1F
                                                                                                                                                    ; Jump table
                                                                   loc_0_1A2A
                                                             .dw
                               loc_0_1A15:
                                                                                                                                                    ; DATA XREF: sub_0_1A07+6 o
                                                                          (unk_0_6387), a
a, #2
                                                            ld
ld
                                                            ld
                                                                           (unk_0_6386), a
                               locret_0_1A1E:
                                                                                                                                                   ; DATA XREF: sub_0_1A07+4↑o
1A1E C9
1A1E
1A1E
1A1F
                                                            ret
                               ; End of function sub_0_1A07
loc_0_1A1F:
                                                                                                                                                   ; DATA XREF: sub_0_1A07+8↑o
                                                                          hl, #0x6387
                                                            ld
                                                            dec
                                                            ret
ld
ld
                                                                          ΝZ
                                                                           (unk_0_6386), a
                                                            ret
                               loc 0 1A2A:
                                                                                                                                                   ; DATA XREF: sub 0 1A07+A10
                                                            ld
                                                                          a, (mario_jumping)
        A7
C0
E1
1A2D
1A2E
                                                            and
```

1A2F

1A33

1A30 C3 D2 19 1A33 1A33

pop

jp

hl

loc_0_19D2 SUBROUTINE

```
sub_0_1A33:
                                                                                                                                             ; CODE XREF: 0000:199E↑p
1A33 3
1A33 E 08
1A35 F7
1A36 3A 03 62
1A39 FE 4B
1A3B CA 4B 1A
1A3E FE B3
1A40 CA 4B 1A
1A43 3A 91 62
1A46 3D
1A47 CA 51 1A
1A4A C9
1A4B
1A4B
 1A33
                                                          ld
                                                                       a, #8
0x30
a, (mario_y_coord)
#0x4B; 'K'
z, loc_0_1A4B
#0x8B; '|'
z, loc_0_1A4B
a, (unk_0_6291)
                                                                           #8
                                                                                                                                            ; return if level bit not set
                                                          ср
                                                          jp
cp
jp
ld
                                                          dec
                                                                       Z, loc_0_1A51
                                                          jp
ret
1A4B
1A4B
1A4B 3E 01
1A4B
                                                                                                                                             ; CODE XREF: sub_0_1A33+8<sup>†</sup> j ; sub_0_1A33+D<sup>†</sup> j
                              loc_0_1A4B:
1A4B
1A4D 32 91 62
1A50 C9
1A51
1A51
                                                          ld
                                                                       (unk_0_6291), a
                                                          ld
1A51
1A51 32 91 62
1A54 47
                              loc_0_1A51:
                                                                                                                                             ; CODE XREF: sub_0_1A33+14 j
                                                                         (unk_0_6291), a
                                                                       b, a
a, (mario_x_coord)
                                                          ld
ld
1A55 3A 05 62
1A58 3D
1A59 FE D0
                                                          dec
cp
                                                                        a
#0xD0 ; 'ð'
 1A5B D0
1A5C 07
                                                          ret
rlca
1A5C 07
1A5D D2 62 1A
1A60 CB D0
1A62
                                                                       NC, loc_0_1A62
2, b
                                                          jp
set
1A62
1A62 07
1A63 07
1A64 D2 69 1A
                              loc_0_1A62:
                                                                                                                                             ; CODE XREF: sub 0 1A33+2A1 j
                                                          rlca
                                                          rlca
                                                                       NC, loc_0_1A69
                                                          qį
1A67 CB C8
1A69
1A69
                                                          set
                                                                        1, b
                              loc_0_1A69:
                                                                                                                                             ; CODE XREF: sub_0_1A33+31 j
and
                                                                        NZ, loc_0_1A72
                                                          jp
                                                          set
                              loc_0_1A72:
                                                                                                                                             ; CODE XREF: sub_0_1A33+3A<sup>†</sup> j
                                                                       a, (mario_y_coord)
                                                          rlca
                                                                       ; CODE XREF: sub 0 1A33+431 j
                              loc_0_1A7B:
                                                                       hl, #unk_0_6292
a, b
a, 1
1, a
a, (h1)
                                                          ld
ld
add
1A7F 85
1A80 6F
1A81 7E
1A82 A7
1A83 C8
1A84 36 00
1A86 21 90 62
1A89 35
1A8A 78
1A8B 01 05 00
1A8E 1F
1A8F DA BD 1A
1A92 21 CB 02
                                                          ld
ld
and
                                                          ret
                                                          ld
ld
dec
                                                                       (h1), #0
h1, #unk_0_6290
(h1)
                                                                       a, b
bc, #5
                                                          ld
                                                          rra
                                                                       C, loc_0_1ABD
hl, #0x2CB
                                                          jp
ld
1A92 21 CB 02
1A95
1A95
1A95 A7
                              loc_0_1A95:
                                                                                                                                             ; CODE XREF: sub_0_1A33+8D|j
                                                          and
                                                                       a
Z, loc_0_1A9E
 1A96 CA 9E 1A
                                                          jр
1A99
1A99
1A99 09
                                                                                                                                             ; CODE XREF: sub_0_1A33+68|j
                              loc_0_1A99:
                                                                       hl, bc
                                                          add
 1A9A
         3D
 1A9A 3D
1A9B C2 99 1A
1A9E
1A9E
                                                                        NZ, loc_0_1A99
                                                          jp
                                                                                                                                             ; CODE XREF: sub_0_1A33+631j
1A9E 1 00 74 1A91 09 1 A92 3E 10 1A94 77 1A95 2D 1A96 77 1A97 2C 1A98 97 71 A94 97 1A96 3E 40 63 1A97 3Z 42 63 1A97 3Z 42 63 1A95 3A 16 62 1A98 A7 1A99 CC 95 1D
                              loc 0 1A9E:
                                                                       bc, #VRAM_start
hl, bc
a, #0x10
(h1), a
                                                          1d
                                                          add
ld
ld
                                                          dec
ld
                                                                        (hl), a
                                                          inc
                                                          ld
ld
ld
ld
                                                                        (hl), a
a, #1
                                                                        (unk_0_6340), a
(unk_0_6342), a
(unk_0_6225), a
                                                          ld
ld
                                                                        a, (mario_jumping)
                                                          and
1ABO A/
1AB9 CC 95 1D
1ABC C9
1ABD
                                                          call
ret
                                                                        Z, sub_0_1D95
 1ABD
1ABD
1ABD 21 2B 01
1ACO C3 95 1A
                              loc_0_1ABD:
                                                                                                                                             ; CODE XREF: sub_0_1A33+5Cfj
                              ld hl, #0x12B
jp loc_0_1A95
; End of function sub_0_1A33
1AC0
1AC0
1AC3
1AC3
1AC3
1AC3
1AC3
1AC3
1AC3 3A 16 62
1AC6 3D
                                                         SUBROUTINE
                                                                                                                                             ; CODE XREF: 0000:1980 p
                              sub_0_1AC3:
                                                          1d
                                                                       a, (mario_jumping)
                                                                       a
Z, loc_0_1BB2
a, (unk_0_621E)
                                                          dec
       CA B2 1B
3A 1E 62
A7
                                                          jp
ld
 1ACD
                                                          and
1ACE C2 55 1B
1AD1 3A 17 62
1AD4 3D
                                                          jp
ld
                                                                       NZ, loc_0_1B55
a, (unk_0_6217)
                                                          dec
 1AD5 CA E6 1A
                                                                       Z, loc_0_1AE6
                                                          jp
ld
 1AD8 3A 15 62
                                                                        a, (mario_climbing)
```

```
1B51 72
1B52 C3 45 1B
1B55
1B55
1B55 21 1E 62
1B58 35
1B59 C0
                                                                                                                                                                                 ; CODE XREF: sub 0 1AC3+B1 i
                                     loc 0 1B55:
                                                                       ld
dec
                                                                                         hl, #unk_0_621E
(hl)
                                                                                         (NI)
NZ
a, (unk_0_6218)
(unk_0_6217), a
hl, #mario_flipy_sprite_tile
a, (hl)
#0x80; 'C'
1859 C0

185A 3A 18 62

185D 32 17 62

1860 21 07 62

1863 7E

1864 E6 80

1866 77

1868 32 02 62

1868 C3 A6 1D

186E

186E

186E
                                                                        ret
                                                                        ld
                                                                        ld
ld
                                                                        ld
and
                                                                                                                                                                                ; h-flip mario
                                                                        ld
xor
ld
                                                                                          (hl), a
                                                                                          a
(unk_0_6202), a
                                                                        jp
                                                                                          loc_0_1DA6
                                                                                                                                                                                 ; CODE XREF: sub_0_1AC3+20 j
1B6E
                                     loc 0 1B6E:
186E 186E 3E 01 1870 32 16 62 1873 21 10 62 1876 3A 10 60 1879 01 80 00 187C 1F 1880 01 80 FF 1883 1F 1884 DA 8A 18 1887 01 00 00 188A
                                                                        ld
ld
ld
                                                                                         a, #1
(mario_jumping), a
h1, #unk_0_6210
a, (controller_in)
bc, #0x80; 'Ç'
                                                                                                                                                                                 ; start_jump
; set mario jumping
                                                                        ld
                                                                        ld
rra
                                                                                                                                                                                 ; right?
; yes, skip
                                                                                          C, loc_0_1B8A
                                                                        jp
ld
                                                                                         bc, #0xFF80
                                                                        rra
jp
ld
                                                                                                                                                                                 ; left?
; yes, skip
                                                                                         C, loc_0_1B8A
bc, #0
1B8A
1B8A
1B8A AF
                                     loc_0_1B8A:
                                                                                                                                                                                 ; CODE XREF: sub_0_1AC3+BA<sup>†</sup> j
; sub_0_1AC3+C1<sup>†</sup> j
1B8A
                                                                        xor
1B8B 70
1B8C 2C
1B8D 71
                                                                        ld
inc
ld
                                                                                          (hl), b
                                                                                          (hl), c
1B8E 2C
                                                                                          (hl), #1
1B8F 36 01
                                                                        ld
```

```
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1B91 2C

1B92 36 48

1B94 2C

1B95 77

1B96 32 04 62

1B99 32 06 62

1B9C 3A 07 62

1B9F E6 80

1BA1 F6 0E
                                                                               (hl), #0x48; 'H'
                                                                ld
                                                               inc
ld
ld
                                                                               (hl), a
(unk_0_6204), a
                                                                ld
                                                                               (unk_0_6206), a
                                                               ld
and
or
                                                                               a, (mario_flipy_sprite_tile)
#0x80 ; 'C'
                                                                             #UXE
(mario_flipy_sprite_tile), a
a, (mario_x_coord)
(unk_0_620E), a
hl, #digital_snd_tmr_jump
(hl), #3
                                                                                                                                                           ; mario jumping character
IBA1 F6 0E
1BA3 32 07 62
1BA6 3A 05 62
1BA9 32 0E 62
1BAC 21 81 60
1BAF 36 03
1BB1 C9
1BB2
1BB2
                                                                ld
                                                               ld
ld
                                                                ld
                                                                1d
                                                                                                                                                           ; tmr=3
1BB2

1BB2 DD 21 00 62

1BB2 DD 21 00 62

1BB6 3A 03 62

1BB9 DD 77 0B

1BBC 3A 05 62

1BBF DD 77 0C

1BC2 CD 9C 23

1BC5 CD 1F 24
                                                                                                                                                           ; CODE XREF: sub_0_1AC3+4<sup>†</sup>j
                                loc_0_1BB2:
                                                               ld
ld
                                                                              ix, #mario_alive_flag
                                                                                     (mario_y_coord)
                                                                               a, (mario_
0xB(ix), a
                                                                                                                                                           ; store X position before a jump
                                                                ld
                                                                              a, (mario_x_coord)

0xC(ix), a

sub_0_239C

sub_0_241F
                                                               ld
ld
                                                                                                                                                           ; store Y position before a jump
                                                                call
                                                               call
dec
jp
ld
1BCS CD 1F 24
1BC8 15
1BC9 C2 F2 1B
1BCC DD 36 10 00
1BD0 DD 36 11 80
1BD4 DD CB 07 FE
1BD8
                                                                              d
NZ, loc_0_1BF2
                                                                              0x10(ix), #0
0x11(ix), #0x80; 'C'
7, 7(ix)
                                                                14
                                                                set
                                                                                                                                                           ; h-flip sprite
                                loc_0_1BD8:
                                                                                                                                                           ; CODE XREF: sub_0_1AC3+13F|j
 1BD8
ld
                                                                              a, (unk_0_6220)
                                                                              Z, loc_0_1BEC
sub_0_2407
                                                                jp
call
                                                               ld
ld
ld
                                                                               0x12(ix), h
0x13(ix), l
0x14(ix), #0
 1BEC
 1BEC
1BEC CD 9C 23
1BEF C3 05 1C
                                loc_0_1BEC:
                                                                                                                                                           ; CODE XREF: sub 0 1AC3+119 j
                                                                call
                                                                               sub_0_239C
loc_0_1C05
                                                                qŗ
 1BF2
1BF2
1BF2
                                                                                                                                                           ; CODE XREF: sub_0_1AC3+106<sup>†</sup>j
                                 loc_0_1BF2:
1BF2 1D
1BF3 C2 05 1C
1BF6 DD 36 10 FF
1BFA DD 36 11 80
1BFE DD CB 07 BE
                                                               dec
                                                               jp
ld
ld
                                                                               NZ, loc_0_1C05
                                                                               0x10(ix), #0xFF
0x11(ix), #0x80; 'C'
7, 7(ix)
                                                                                                                                                           ; un-hflip sprite
                                                                res
 1C02 C3 D8 1B
1C05
1C05
                                                                               loc_0_1BD8
                                                                                                                                                           ; CODE XREF: sub_0_1AC3+12C<sup>†</sup>j; sub_0_1AC3+130<sup>†</sup>j
                                loc 0 1C05:
 1C05 CD 1C 2B
1C05
1C08 3D
                                                               call
dec
                                                                              sub_0_2B1C
                                                                                                                                                           ; are we jumping?
 1C09 CA 3A 1C
1C0C 3A 1F 62
1C0F 3D
                                                                jp
ld
dec
                                                                              Z, loc_0_1C3A
a, (unk_0_621F)
100 3A 1F 62
100F 3D
1010 CA 76 1C
1013 3A 14 62
1016 D6 14
1018 C2 33 1C
101B 3E 01
101D 32 1F 62
1020 CD 53 28
1023 A7
1024 CA A6 1D
1027 32 42 63
102A 3E 01
102C 32 40 63
102F 32 25 62
1032 00
1033
1033
1033
1033
                                                                              a Z, loc_0_1C76 a, (unk_0_6214) #0x14 NZ, loc_0_1C33
                                                                jp
ld
                                                               sub
jp
ld
                                                                              a, #1
(unk_0_621F), a
                                                                                                                                                           ; peak of the jump
                                                                ld
                                                               call
and
                                                                                                                                                           ; check for bonus points?
; any bonus points?
; no, exit
                                                                               sub_0_2853
                                                                              a
Z, loc_0_1DA6
(unk_0_6342), a
                                                                jp
ld
ld
                                                                                                                                                           ; register bonus
                                                                               a, #1
(unk_0_6340), a
                                                                ld
                                                                1d
                                                                               (unk_0_6225), a
                                 loc_0_1C33:
                                                                                                                                                           ; CODE XREF: sub_0_1AC3+155<sup>†</sup>j
 1C33 3C
1C34 CC 54 29
1C37 C3 A6 1D
                                                                call
                                                                               Z, sub_0_2954
loc_0_1DA6
                                                                jр
 1C3A
1C3A
1C3A
1C3A
                                 loc_0_1C3A:
                                                                                                                                                           ; CODE XREF: sub_0_1AC3+146 j
                                                               dec
1C3A 05

1C3B CA 4F 1C

1C3E 3C

1C3F 32 1F 62

1C42 AF

1C43 21 10 62

1C46 06 05

1C48

1C48

1C48
                                                               jp
inc
ld
                                                                              Z, loc_0_1C4F
                                                                               (unk_0_621F), a
                                                                xor
ld
                                                                               hl, #0x6210
                                                                ld
                                loc_0_1C48:
                                                                                                                                                          ; CODE XREF: sub_0_1AC3+187|j
1C48
1C48 77
1C49 2C
1C4A 10 FC
1C4C C3 A6 1D
                                                               1d
                                                                               (hl), a
                                                                               loc_0_1C48
                                                                djnz
 1C4F
1C4F
1C4F
                                 loc_0_1C4F:
                                                                                                                                                          ; CODE XREF: sub_0_1AC3+178 j
1C4F
1C4F 32 16 62
1C52 3A 20 62
1C55 EE 01
1C57 32 00 62
1C5A 21 07 62
1C5D 7E
1C5E E6 80
                                                                              (mario_jumping), a
a, (unk_0_6220)
#1
                                                                ld
                                                               ld
xor
ld
                                                                               (mario_alive_flag),
                                                                                                                                                           ; set whether mario survives a jump
```

; mario landing character

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

ld ld and

or ld

ld ld

xor

ld ld

ded

call

#0xF

(hl), a a, #4

a, #4 (unk_0_621E), a

(unk 0 621F) a, (unk_0_6225)

Z. sub 0 1D95

loc_0_1DA6

1C60 F6 0F 1C62 77 1C63 3E 04 1C65 32 1E 62

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

32 1F 62 3A 25 62 3D

1C68 AF

1C69 1C6C 1C6F

```
loc_0_1C76:
                                                                                                                                                           ; CODE XREF: sub_0_1AC3+14D<sup>†</sup> j
 1C76 3A 05 62
1C79 21 0E 62
1C7C D6 0F
                                                                              a, (mario_x_coord)
hl, #unk_0_620E
#0xF
                                                               ld
ld
                                                                sub
1C7C D6 OF
1C7E BE
1C7F DA A6 1D
1C82 3E 01
1C84 32 20 62
1C87 21 84 60
1C8A 36 03
1C8C C3 A6 1D
                                                                cp
jp
ld
                                                                              C, loc_0_1DA6
a, #1
                                                                               (unk 0 6220), a
                                                                ld
                                                                              hl, #0x6084
(hl), #3
loc_0_1DA6
                                                                ld
ld
                                                                jр
1C8F
1C8F
1C8F
1C8F 06 01
                                 loc_0_1C8F:
                                                                                                                                                          ; CODE XREF: sub_0_1AC3+2F<sup>†</sup>j
                                                                              b, #1
a, (unk_0_620F)
                                                                ld
1C91 3A 0F 62
1C94 A7
1C95 C2 D2 1C
1C98 3A 02 62
                                                               ld
and
                                                                               NZ, loc_0_1CD2
                                                                jp
ld
1C95 C2 D2 1C

1C98 3A 02 62

1C9B 47

1C9C 3E 05

1C9E CD 09 30

1CA1 32 02 62

1CA4 E6 03

1CA6 F6 80

1CA8 C3 C2 1C
                                                                                    (unk_0_6202)
                                                               ld
ld
                                                               call
ld
                                                                               sub_0_3009
                                                                               (unk_0_6202), a
                                                                and
or
                                                                               #3
#0x80 ; 'Ç'
loc_0_1CC2
                                                                jр
 1CAR
 1CAB
1CAB
1CAB 06 FF
                                 loc_0_1CAB:
                                                                                                                                                           ; CODE XREF: sub_0_1AC3+38<sup>†</sup>j
                                                                              b, #0xFF
a, (unk_0_620F)
1CAB 06 FF
1CAD 3A 0F 62
1CB0 A7
1CB1 C2 D2 1C
1CB4 3A 02 62
1CB7 47
1CB8 3E 01
1CBA CD 09 30
1CBD 32 02 62
1CC0 E6 03
1CC2
1CC2
1CC2
1CC2 1 07 62
1CC5 77
1CC6 IF
1CC7 DC 8F 1D
                                                                ld
                                                               ld
and
                                                                               NZ, loc_0_1CD2
                                                                jp
ld
                                                                             a, (u.
b, a
#1
                                                                                    (unk 0 6202)
                                                               ld
ld
                                                                call
                                                                               sub_0_3009
                                                                               (unk_0_6202), a
                                                                ld
                                                                                                                                                           ; animate mario running
                                 loc 0 1CC2:
                                                                                                                                                           ; CODE XREF: sub_0_1AC3+1E5 j
                                                                ld
                                                                               hl, #mario_flipy_sprite_tile
 1CC2 21 07 02
1CC5 77
1CC6 1F
1CC7 DC 8F 1D
                                                               ld
rra
                                                                               (hl), a
                                                                                                                                                           ; set amrio character
                                                                              C, sub_0_1D8F
                                                                call
 1CCA 3E 02
1CCC 32 0F 62
1CCF C3 A6 1D
                                                                14
                                                                               a, #2
(unk_0_620F), a
loc_0_1DA6
                                                                ld
                                                                jр
 1CD2
1CD2
1CD2
1CD2
1CD2 21 03 62
                                 loc_0_1CD2:
                                                                                                                                                           ; CODE XREF: sub_0_1AC3+1D2<sup>†</sup>j
; sub_0_1AC3+1EE<sup>†</sup>j
1CD2
1CD5 7E
1CD6 80
1CD7 77
                                                                              hl, #mario_y_coord
a, (hl)
                                                                1d
                                                               ld
add
ld
                                                                               a, (III)
a, b
(hl), a
1CD7 77
1CD8 3A 27 62
1CDB 3D
1CDC C2 EB 1C
1CDF 66
1CE0 3A 05 62
                                                               ld
dec
jp
ld
ld
                                                                               a, (level_type)
                                                                               NZ, loc_0_1CEB
                                                                              h, (hl)
a, (mario_x_coord)
l, a
 1CE3 6F
1CE4 CD 33 23
1CE7 7D
                                                               ld
call
                                                                               1, a
sub_0_2333
 1CE7 7D
1CE8 32 05 62
                                                                               a, 1
(mario_x_coord), a
                                                                ld
                                                                14
                                 loc_0_1CEB:
                                                                                                                                                          ; CODE XREF: sub_0_1AC3+219 j
 1CEB
 1CEB 21 OF 62
                                                               ld
                                                                              hl, #unk_0_620F (hl)
1CEE 35
1CEF C3 A6 1D
1CF2
1CF2
1CF2
1CF2 3A 0F 62
1CF5 A7
1CF6 C2 8A 1D
1CF9 3E 03
1CFB 32 0F 62
1CFE 3E 02
1CFB 32 0 F 62
1CFB 3E 01
 1CEE
                                                                               loc_0_1DA6
                                                                jр
                                                                                                                                                           ; CODE XREF: sub_0_1AC3+7A<sup>†</sup>j
                                 loc_0_1CF2:
                                                                               a, (unk_0_620F)
                                                                                                                                                           ; check timer
; expired?
                                                                ld
                                                                and
                                                                jp
ld
ld
                                                                               NZ, loc_0_1D8A
                                                                                                                                                           ; no, skip
                                                                               a, #3
(unk_0_620F), a
                                                                                                                                                           ; reset timer
                                                                ld
 1D00 C3 11 1D
1D03
1D03
                                                                               loc_0_1D11
1D03

1D03

1D03

3A 0F 62

1D06 A7

1D07 C2 76 1D

1D0A 3E 04

1D0C 32 0F 62

1D0F 3E FE

1D11
                                                                                                                                                           ; CODE XREF: sub_0_1AC3+87<sup>†</sup>j
                                 loc 0 1D03:
                                                               ld
and
                                                                              a, (unk_0_620F)
                                                                                                                                                           ; check timer
; expired?
                                                                              NZ, loc_0_1D76
                                                                                                                                                           ; no, skip
                                                                jp
ld
                                                                               (unk_0_620F), a
a, #0xFE; '■'
                                                                                                                                                           ; reset timer
                                                                ld
                                                                               a, #0xFE;
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 1D22 78 1D23 C6 08 1D25 21 1C 62 1D28 BE
                                 loc_0_1D11:
                                                                                                                                                          ; CODE XREF: sub_0_1AC3+23Dfj
                                                                              hl, #mario_x_coord
a, (hl)
(hl), a
                                                               1d
                                                               add
ld
                                                                              b, a
a, (unk_0_6222)
#1
                                                               ld
ld
                                                                xor
ld
                                                                               (unk_0_6222),
                                                                jp
ld
                                                                              NZ, loc_0_1D51
a, b
                                                                              a, b
a, #8
hl, #unk_0_621C
                                                                add
ld
                                                                                                                                                           ; bottom y coordinate of ladder; stop from climbing
 1D28 BE
1D29 CA 67 1D
                                                               cp
jp
dec
                                                                               (hl)
Z, loc_0_1D67
                                                                                                                                                           ; top y coordinate of ladder
; stop from climbing
 1D2D 96
                                                                               (hl)
                                                                sub
 1D2E CA 67 1D
1D31 06 05
1D33 D6 08
                                                                jp
ld
                                                                              Z, loc_0_1D67
b, #5
                                                                sub
                                                                               #8
 1D35 CA 3F 1D
1D38 05
1D39 D6 04
                                                                jp
dec
                                                                               Z, loc_0_1D3F
                                                                sub
1D3B CA 3F 1D
1D3E 05
                                                                               Z, loc_0_1D3F
                                                                jp
dec
```

```
1D3F
                                                                                                                                          ; CODE XREF: sub_0_1AC3+272<sup>†</sup>j; sub_0_1AC3+278<sup>†</sup>j
1D3F
                            loc 0 1D3F:
1D3F
1D3F 3E 80
1D3F
1D41 21 07 62
1D44 A6
1D45 EE 80
1D47 B0
1D48 77
                                                                     a, #0x80 ; 'C'
hl, #mario_flipy_sprite_tile
(hl)
                                                        ld
ld
                                                        and
                                                                      #0x80 ; 'Ç'
                                                        xor
                                                                                                                                          ; hflip mario
                                                        or
ld
                                                                      b (hl), a
1D49
1D49
1D49 3E 01
1D4B 32 15 62
                             loc_0_1D49:
                                                                                                                                          ; CODE XREF: sub_0_1AC3+2A1|j
; flag mario climbing a ladder
                                                                      a, #1
(mario_climbing), a
                                                        ld
1D4E C3 A6 1D
1D51
1D51
1D51
                                                                      loc 0 1DA6
                                                                                                                                          ; CODE XREF: sub_0_1AC3+25C1j
                             loc 0 1D51:
1D51 1D52 2D 1D52 2D 1D53 7E 1D54 F6 03 1D56 CB 97 1D58 77 1D58 EE 01 1D55 32 24 62 1D51 CB F1 D50 4 23 49 1D 1D67 1D67
                                                        dec
ld
                                                                      a, (hl)
                                                        or
                                                        res
ld
ld
                                                                     a, (unk_0_6224)
                                                        xor
                                                        ld
call
                                                                      (unk_0_6224),
Z, sub_0_1D8F
loc_0_1D49
                                                        jр
1D67
1D67
1D67
1D67 3E 06
                                                                                                                                            CODE XREF: sub_0_1AC3+266<sup>†</sup> j sub_0_1AC3+26B<sup>†</sup> j
                             loc_0_1D67:
                                                                     a, #6
(mario_flipy_sprite_tile), a
                                                        ld
ld
                                                                                                                                          ; mario climbing character
1D67
1D69 32 07 62
1D6C AF
1D6D 32 19 62
1D70 32 15 62
1D73 C3 A6 1D
1D76
                                                        xor
                                                                      (unk_0_6219), a
                                                        ld
                                                                      (mario_climbing), a loc_0_1DA6
                                                        ld
                                                                                                                                          ; flaf not climbing a ladder
                                                        jр
1D76

1D76

1D76

1D76

3A 1A 62

1D79 A7

1D7A CA 8A 1D

1D7D 32 19 62

1D80 3A 1C 62

1D83 D6 13

1D85 21 05 62

1D88 BE

1D89 D0

1D8A
                             loc_0_1D76:
                                                                                                                                         ; CODE XREF: sub_0_1AC3+244<sup>†</sup> j
                                                                      a, (unk_0_621A)
                                                        ld
                                                        and
                                                                     a
Z, loc_0_1D8A
                                                        jp
ld
ld
                                                                      (unk_0_6219), a
a, (unk_0_621C)
#0x13
                                                        sub
                                                                     hl,
(hl)
NC
                                                                            #mario_x_coord
                                                        14
                                                        ср
                                                        ret
1D8A
1D8A
1D8A 21 OF 62
1D8A
                                                                                                                                          ; CODE XREF: sub_0_1AC3+233<sup>†</sup>j
; sub_0_1AC3+2B7<sup>†</sup>j
                             loc_0_1D8A:
                                                                     hl, #unk_0_620F
(hl)
                                                        ld
1D8D 35
                                                       dec
ret
1D8E C9
1D8E
                             ; End of function sub_0_1AC3
1D8E
1D8F
1D8F
1D8F
1D8F
1D8F
                                                      SUBROUTINE
1D8F
                             sub_0_1D8F:
                                                                                                                                          ; CODE XREF: sub_0_1AC3+204 p
                                                                                                                                            sub_0_1AC3+29E↑p
tmr=3
1D8F 3E 03
1D8F
1D91 32 80 60
1D94 C9
                                                                      (digital_snd_tmr_walk), a
                                                        1d
                             ret; End of function sub_0_1D8F
1D95
1D95
1D95
1D95
                                                      SUBROUTINE
1D95
1D95 32 25 62
1D95
1D98 3A 27 62
                                                                                                                                          ; CODE XREF: sub_0_1A33+86<sup>p</sup>
; sub_0_1AC3+1AD<sup>p</sup>
                             sub_0_1D95:
                                                        ld
ld
                                                                      (unk_0_6225),
a, (level_type)
                                                        dec
ret
ld
                                                                     hl, #unk_0_608A
(hl), #0xD
                                                        1d
                                                        ld
                                                                      (hl), #3
                                                        ret
                             ; End of function sub_0_1D95
                                                                                                                                         ; CODE XREF: sub_0_1AC3+A8<sup>†</sup>j; sub_0_1AC3+161<sup>†</sup>j ...
                             loc 0 1DA6:
1DA6 21 4C 69
1DA6
1DA9 3A 03 62
                                                        ld
ld
                                                                     hl, #soft_sprite_ram+0x4C
                                                                      a, (mario_y_coord)
(hl), a
a, (mario_flipy_sprite_tile)
l
                                                        ld
ld
inc
ld
1DAC
1DAC 77
1DAD 3A 07 62
1DB0 2C
1DB1 77
                                                                      (hl), a
                                                                      a, (mario_flipx_colour)
1
1DB1 77
1DB2 3A 08 62
1DB5 2C
1DB6 77
                                                        ld
inc
ld
                                                                      (hl),
                                                                     a, (mario_x_coord)
1
1DB7 3A 05 62
1DBA 2C
1DBB 77
1DBC C9
                                                        ld
                                                                      (hl), a
                                                        ret
1DBD
1DBD
1DBD
                                                       SUBROUTINE
1DBD
1DBD
                             sub 0 1DBD:
                                                                                                                                          ; CODE XREF: 0000:127C1p
1DBD 3A 40 63 1DBD 1DC0 EF 1DC0 1DC1 49 1E 1DC3 C9 1D
                                                                                                                                          ; 0000:1641<sup>†</sup>p ...
                                                                           (unk_0_6340)
                                                                      a, (1
0x28
                                                                                                                                          ; go!
                                                        rst
                                                        .dw ret .dw loc_0_1DC9
1DC5 4A 1E
1DC7 00
                                                        .dw loc_0_1E4A .db 0 ;
```

```
1DC8 00
                                                                         0 ;
                                                             .db
1DC9
1DC9

1DC9

1DC9

1DC9

1DC9

3E 40

1DCB 32 41 63

1DCE 3E 02

1DD0 32 40 63

1DD3 3A 42 63

1DD6 1E
                               loc_0_1DC9:
                                                                                                                                                     ; DATA XREF: sub_0_1DBD+6↑o
                                                                           a, #0x40; '@'
(unk_0_6341), a
                                                             ld
                                                            ld
ld
ld
                                                                            (unk_0_6340),
                                                                           a, (unk_0_6342)
1DD6 1F
1DD7 DA 70 3E
1DDA 1F
1DDB DA 00 1E
                                                            rra
jp
rra
                                                                           C, loc_0_3E70
                                                             jp
rra
jp
ld
ld
                                                                           C, loc_0_1E00
1DDE 1F
1DDF DA F5 1D
1DE2 21 85 60
1DE5 36 03
                                                                           C, loc_0_1DF5
hl, #digital_snd_tmr_barrel_jump_priz
(hl), #3
                                                                                                                                                    ; tmr=3
1DE5 36 03
1DE7 3A 29 62
1DEA 3D
1DEB CA 00 1E
                                                                           a, (level)
                                                            ld
dec
                                                                           a
Z, loc_0_1E00
                                                             jр
1DEE 3D
1DEF CA 08 1E
1DF2 C3 10 1E
1DF5
                                                             jp
jp
                                                                           Z, award_500_pts
award_800_pts
1DF5
1DF5
1DF5 3A 18 60
1DF8 1F
                               loc_0_1DF5:
                                                                                                                                                     ; CODE XREF: sub_0_1DBD+22<sup>†</sup>j
                                                             ld
                                                                           a, (random_no)
                                                                                                                                                     ; 50% chance for 500 pts
; award 500 pts
; 25% chance for 800 pts
; award 800 pts
                                                             rra
1DF0 1F
1DF9 DA 08 1E
1DFC 1F
1DFD DA 10 1E
                                                             jp
rra
                                                                           C, award_500_pts
                                                                           C, award_800_pts
                                                             jр
1E00
                                                                                                                                                     ; CODE XREF: sub_0_1DBD+1Efj
; sub_0_1DBD+2Efj
; '300' sprite tile
; award 3 (300) points
1E00
1E00 06 7D
1E00
                               loc_0_1E00:
                                                             ld
                                                                           b, #0x7D ; '}'
1E00
1E02 11 03 00
1E05 C3 15 1E
                                                             ld
                                                                            award_points
1E08
1E08
                                                                                                                                                        CODE XREF: sub 0 1DBD+321i
1E08
                               award 500 pts:
                                                                                                                                                     ; sub_0_1DBD+3C<sup>†</sup> j
; '500' sprite tile
; award 5 (500) points
1E08 06 7E
1E08
                                                                           b, #0x7E ; '~'
1E0A 11 05 00
1E0D C3 15 1E
                                                             ld
                                                                           de,
                                                                                  #5
                                                                           award_points
                                                                                                                                                        CODE XREF: sub_0_lDBD+35<sup>†</sup>j
sub_0_lDBD+40<sup>†</sup>j
'800' sprite tile
add_bonus_and_update_high_score (800)
                               award 800 pts:
1E10 06 7F
1E10 00 7F
1E10
1E12 11 08 00
                                                                           b, #0x7F ; ' ' de, #8
                                                             ld
1E15
1E15
1E15 CD 9F 30
1E15
                                                                                                                                                        CODE XREF: sub_0_1DBD+48<sup>†</sup>j
sub_0_1DBD+50<sup>†</sup>j
schedule award points
                               award_points:
                                                                           queue_fg_vector_fn
h1, (unk_0_6343)
a, (h1)
(h1), #0
                                                             call
1E15
1E18 2A 43 63
1E1B 7E
1E1C 36 00
1E1E 2C
                                                            ld
ld
ld
                                                                                                                                                     ; ptr x position
; prize x position
; erase prize
; go to y position
                                                             inc
1E1E 2C
1E1F 2C
1E2O 2C
1E21 4E
1E22 C3 36 1E
1E25
                                                             inc
                                                             ld
                                                                                                                                                     ; get y position ; program award sprite
                                                                           loc_0_1E36
                                                             qŗ
1E25 11 01 00
1E28
                                                             ld
                                                                           de, #1
                                                                                                                                                     ; add_bonus_and_update_high_score (100)
                                                                                                                                                     ; CODE XREF: 0000:3E76|j; 0000:3E7E|j ...
                               loc_0_1E28:
1E28
1E28 CD 9F 30
1E28
1E2B 3A 05 62
                                                            call
ld
add
                                                                                                                                                     ; schedule award points
                                                                           queue_fg_vector_fn
                                                                           a, (mario_x_coord)
a, #0x14
1E2E C6 14
1E3E C6 14

1E30 4F

1E31 3A 03 62

1E34 00

1E35 00

1E36

1E36
                                                                           c, a
a, (mario_y_coord)
                                                             ld
ld
                                                             nop
                                                             nop
1E36
1E36 21 30 6A
1E39 77
1E3A 2C
1E3B 70
1E3C 2C
1E3D 36 07
1E3F 2C
1E40 71
1E41 3E 05
1E43 F7
1E44 21 85 60
1E47 36 03
1E49
1E49
                               loc_0_1E36:
                                                                                                                                                     ; CODE XREF: sub_0_1DBD+65<sup>†</sup>j; add bonus points sprite to display
                                                             ld
                                                                           hl. #soft sprite ram+0x130
                                                            ld
inc
                                                                            (hl), a
                                                                            (hl), b
                                                             inc
                                                            ld
inc
                                                                            (hl), #7
                                                                           1
(hl), c
a, #5
                                                             ld
                                                                                                                                                     ; return if level bit not set
                                                                           hl, #digital_snd_tmr_barrel_jump_priz (hl), #3
                                                                                                                                                     ; tmr=3
                                                            ld
1E49
1E49 C9
1E49
                               ret:
                                                                                                                                                     ; DATA XREF: sub_0_1DBD+4\u00e10
                               ret; End of function sub_0_1DBD
1E49
1E4A
1E4A
                                                                                                                                                     ; DATA XREF: sub_0_1DBD+8 o
1E4A
                               loc 0 1E4A:
1E4A 21 41 63
1E4D 35
1E4E C0
                                                            ld
dec
ret
                                                                           hl, #unk_0_6341
(hl)
                                                                           NZ
1E4F AF
                                                             xor
1E4F AF
1E50 32 30 6A
1E53 32 40 63
1E56 C9
1E57
1E57
                                                                           (soft_sprite_ram+0x130), a (unk_0_6340), a
                                                             1d
                                                             ld
                                                            ret
                                                            SUBROUTINE
1E57
1E57 3A 27 62
1E5A CB 57
1E5C C2 80 1E
1E5F 1F
1E60 3A 05 62
1E63 DA 7A 1E
1E66 FE 51
1E68 DO
                               sub 0 1E57:
                                                                           a, (level_type)
2, a
                                                                                                                                                    ; CODE XREF: 0000:19B91p
                                                            ld
bit
                                                            jp
rra
ld
                                                                           NZ, loc_0_1E80
                                                                           a, (mario_x_coord)
C, loc_0_1E7A
#0x51; 'Q'
                                                             jр
                                                             cp
ret
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
 1E69 3A 03 62
                                                                                                                a, (mario_y_coord)
 1E6C 17
                                                                                           rla
 1E6D
1E6D | 1E6D | 1E6D | 3E 00 | 1E6F DA 74 1E 1E74 | 1E74 | 32 4D 69 1E77 C3 85 1E 1E7A | 1E7A |
                                               loc_0_1E6D:
                                                                                                                                                                                                                               ; CODE XREF: sub_0_1E57+26|j
                                                                                                                 a, #0
C, loc_0_1E74
a, #0x80; 'Ç
                                                                                            jp
ld
                                               loc_0_1E74:
                                                                                                                                                                                                                                ; CODE XREF: sub_0_1E57+18 j
                                                                                                                 (soft_sprite_ram+0x4D), a
loc_0_1E85
                                                                                            ld
1E7A
1E7A FE 31
1E7C DO
1E7D C3 6D 1E
                                               loc_0_1E7A:
                                                                                                                                                                                                                                ; CODE XREF: sub_0_1E57+Cfj
                                                                                           cp
ret
                                                                                                                  #0x31 ; '1'
                                                                                                                  loc_0_1E6D
                                                                                            jр
 1E80
                                               ; ___
1E80
1E80
                                               loc_0_1E80:
                                                                                                                                                                                                                                ; CODE XREF: sub_0_1E57+5^j
 1E80 3A 90 62
1E83 A7
1E84 C0
1E85
                                                                                            1d
                                                                                                                  a. (unk 0 6290)
                                                                                            ret
 1E85
                                                                                                                                                                                                                               ; CODE XREF: sub 0 1E57+201i
                                               loc_0_1E85:
 1E85 3E 16
1E87 32 0A 60
                                                                                           ld
ld
                                                                                                                  a, #0x16
(main_sequencer), a
1E8A E1
1E8B C9
                                                                                           pop
                                                                                                                  hl
                                                                                            ret
                                                ; End of function sub_0_1E57
 1E8C
1E8C
1E8C
1E8C
1E8C
1E8C
1E8C 3A 50 63
1E8F A7
1E90 C8
                                                                                       SUBROUTINE
                                                                                                                                                                                                                                ; CODE XREF: 0000:197D^p
                                               sub 0 1E8C:
                                                                                           ld
                                                                                                                 a, (unk_0_6350)
                                                                                            ret
1E90 C8
1E91 CD 96 1E
1E94 E1
1E95 C9
1E95
1E95
                                                                                            call
                                                                                                                  sub 0 1E96
                                               ; End of function sub_0_1E8C
                                                                                        SUBROUTINE
 1E96
 1E96
1E96
1E96 3A
1E99 EF
                                               sub_0_1E96:
                                                                                                                                                                                                                                 ; CODE XREF: sub_0_1E8C+5\p
             3A 45 63
                                                                                                                          (unk_0_6345)
                                                                                                                 a, (1
0x28
                                                                                                                                                                                                                                ; qo!
                                                                                           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
                                                                                                                                                                                                                                ; DATA XREF: sub_0_1E96+41o
                                               loc_0_1EA0:
1EAO 3A 52 63
1EA3 FE 65
1EA5 21 B8 69
1EA8 CA B4 1E
1EAB 21 DO 69
1EAE DA B4 1E
1EB1 21 80 69
                                                                                                                 a, (unk_0_6352)
#0x65; 'e'
h1, #soft_sprite_ram+0xB8
                                                                                           1d
                                                                                                                                                                                                                                ; hammer just hit something
                                                                                                                #Ux65; e:
hl, #soft_sprite_ram+0xB8
Z, loc_0_1EB4
hl, #soft_sprite_ram+0xD0
C, loc_0_1EB4
hl, #soft_sprite_ram+0xB0
                                                                                                                                                                                                                                ; process hammer hit effect (start)
                                                                                            jp
ld
                                                                                                                                                                                                                               ; fireball area in sprite ram
 1EB4
 1EB4
1EB4 DD 2A 51 63
1EB4
                                                                                                                                                                                                                                ; CODE XREF: sub_0_1E96+12<sup>†</sup> j ; sub_0_1E96+18<sup>†</sup> j
                                              loc_0_1EB4:
                                                                                                                  ix, (unk_0_6351)
                                                                                            ld
 1EB8 16 00
                                                                                                                 d, #0
a, (unk_0_6353)
e, a
                                                                                            ld
1EBA 3A 53 63
1EBD 5F
1EBE 01 04 00
                                                                                            ld
ld
                                                                                                                  e, a
bc, #4
                                                                                            ld
                                                                                                                 a, (unk_0_6354)
1EC1 3A 54 63
1EC4 A7
1EC5 CA CF 1E
1EC8
                                                                                            ld
                                                                                                                  Z, loc_0_1ECF
                                                                                            jр
1EC8
1EC8 09
1EC9 DD 19
1ECB 3D
1ECC C2 C8 1E
                                              loc_0_1EC8:
                                                                                                                                                                                                                               ; CODE XREF: sub_0_1E96+36 | j
                                                                                           add
add
                                                                                                                  ix, de
                                                                                            dec
                                                                                            jр
                                                                                                                  NZ, loc_0_1EC8
                                                                                                                                                                                                                               ; CODE XREF: sub_0_1E96+2F^j
                                              loc 0 1ECF:
LECF 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
and
                                                                                                                 a, #2
Z, loc_0_1EDE
                                                                                            1d
                                                                                           jp
ld
 1EDC 3E 04
1EDE
                                                                                                                  a, #4
                                               loc_0_1EDE:
                                                                                                                                                                                                                               ; CODE XREF: sub_0_1E96+43 j
 1EDE
1EDE 12 42 63 1EE1 01 2C 6A 1EE4 7E 1EE5 36 00 1EE7 02 1EE8 0C 1EE9 2C
                                                                                                                  (unk_0_6342), a
                                                                                            1d
                                                                                                                (unk_0_6342), a
bc, #soft_sprite_ram+0x12C
a, (h1)
(h1), #0
(bc), a
                                                                                           ld
ld
ld
                                                                                           ld
inc
inc
ld
                                                                                                                                                                                                                                ; flash sprite x coord
1EE9 2C
1EEA 3E 60
1EEC 02
1EED 0C
1EEE 2C
1EEF 3E 0C
1EF1 02
1EF2 0C
1EF3 2C
1EF4 7E
                                                                                                                        #0x60 ; '`'
                                                                                                                                                                                                                               ; initial hit sprite character
; flash sprite character
                                                                                           ld
inc
inc
                                                                                                                 (bc), a
```

; flash sprite y coord

ld

ld inc

inc ld

ld ld

inc

ld

1d

1EF4 1EF5 1EF6 1EF9

1EFA 2C 1EFB 36 06 1EFD 2C

1EFE 36 05

1F00 21 8A 60

02 21 45 63 34

#0xC

(hl)

(hl), #6

(hl), #5

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

hl, #unk_0_608A

(bc), a

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
 1F03 36 06
                                                                                                           (hl), #6
                                                                                      ld
 1F05 2C
1F06 36 03
1F08 C9
1F08
                                                                                                          (hl), #3
                                                                                     1d
                                             ; End of function sub_0_1E96
 1F08
 1F09
1F09
1F09
                                            loc_0_1F09:
                                                                                                                                                                                                                 ; DATA XREF: sub_0_1E96+6↑o
1F09 21 46 63
1F0C 35
1F0C 35
1F10 C0
1F0E 36 06
1F10 2C
1F11 35
1F12 CA 1D 1F
1F15 21 2D 6A
1F16 C9
1F1D 36 04
1F16 C9
1F1D 36 04
1F1F 2D
1F1D 36 04
1F1F 2D
1F20 2D
1F20 37
1F23 31
1F33 30
1F34 1F34 1F34
1F34 1F34
1F34 1F34 2D
1F35 2D
1F36 AF
1F37 77
1F38 32 50 63
1F36 32 40 63
1F38 3C 3C 40 63
                                                                                                         hl, #unk_0_6346
(hl)
NZ
(hl), #6
                                                                                     ld
                                                                                                                                                                                                                 ; process hammer hit effect (middle)
                                                                                     dec
ret
                                                                                      ld
                                                                                      inc
dec
jp
ld
                                                                                                         1
(h1)
Z, loc_0_1F1D
h1, #0x6A2D
a, (h1)
#1
                                                                                     ld
xor
ld
                                                                                                                                                                                                                 ; animate hit flash
                                                                                                          (hl), a
                                                                                      ret
                                            loc_0_1F1D:
                                                                                                                                                                                                                 ; CODE XREF: 0000:1F12<sup>†</sup>j
                                                                                      ld
                                                                                                          (hl), #4
                                                                                     dec
                                                                                                          (hl)
                                                                                      inc
                                            loc_0_1F23:
                                                                                                                                                                                                                 ; DATA XREF: sub_0_1E96+8↑o
                                                                                     ld
dec
ret
                                                                                                         hl, #unk_0_6346
(hl)
                                                                                                                                                                                                                 ; process hammer hit effect (end)
                                                                                                         NZ
(hl), #0xC
                                                                                      ld
                                                                                     inc
dec
jp
ld
                                                                                                         (hl)
Z, loc_0_1F34
hl, #soft_sprite_ram+0x12D
(hl)
                                                                                     inc
                                                                                                                                                                                                                 ; animate hit flash
                                            loc_0_1F34:
                                                                                                                                                                                                                 ; CODE XREF: 0000:1F2C<sup>†</sup>j
                                                                                                         1
                                                                                      dec
                                                                                     xor
ld
ld
                                                                                                          (hl), a
(unk_0_6350), a
                                                                                                                                                                                                                ; stop effect process
                                                                                      inc
                                                                                     ld
ld
ld
                                                                                                         (unk_0_6340), a
hl, #soft_sprite_ram+0x12C
(unk_0_6343), hl
 1F45 C9
1F46
1F46
1F46
                                                                                     ret
                                                                                     SUBROUTINE
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 11 62

1F58 32 11 62

1F58 32 13 62

1F61 32 14 62

1F61 32 14 62

1F65 32 16 62

1F68 32 1F 62

1F68 32 1F 62

1F68 32 1F 62

1F68 30 05 62

1F68 30 06 62

1F71 C9
                                            sub_0_1F46:
                                                                                                                                                                                                                ; CODE XREF: 0000:19A41p
                                                                                                          a, (unk_0_6221)
                                                                                      ld
                                                                                      and
                                                                                                         a
Z
                                                                                      ret
                                                                                      xor
ld
                                                                                                           a (unk_0_6204), a
                                                                                                          (unk_0_6204), a
(unk_0_6206), a
(unk_0_6211), a
(unk_0_6211), a
(unk_0_6211), a
(unk_0_6212), a
(unk_0_6213), a
(unk_0_6214), a
                                                                                     ld
ld
ld
ld
ld
ld
                                                                                      inc
                                                                                                          (mario_jumping), a
(unk_0_621F), a
a, (mario_x_coord)
(unk_0_620E), a
                                                                                      ld
                                                                                      ld
ld
ld
                                            ret; End of function sub_0_1F46
                                                                                 S U B R O U T I N E
                                            sub_0_1F72:
                                                                                                                                                                                                                ; CODE XREF: 0000:1983 p
                                                                                     ld
dec
                                                                                                         a, (level_type)
                                                                                      ret
ld
                                                                                                          NZ
ix, #unk_0_6700
                                                                                                         hl, #soft_sprite_ram+0x80
de, #0x20; ' '
b, #0xA
                                                                                      ld
ld
                                                                                      ld
                                            loc_0_1F83:
                                                                                                                                                                                                                ; CODE XREF: sub_0_1F72+1E|j
                                                                                      ld
                                                                                                         a, 0(ix)
                                                                                      dec
 1F87 CA 93 1F
1F8A 2C
1F8B 2C
                                                                                      jp
inc
inc
                                                                                                          Z, loc_0_1F93
                                                                                                          1 1 1
 1F8C 2C
1F8D
1F8D
1F8D 2C
                                                                                      inc
                                            loc_0_1F8D:
                                                                                                                                                                                                                 ; CODE XREF: 0000:21CE|j
 1F8E DD 19
1F90 10 F1
1F92 C9
                                                                                      add
                                                                                                          ix. de
                                                                                      djnz
                                                                                                          loc_0_1F83
 1F93
1F93
 1F93
1F93 DD 7E 01
                                            loc_0_1F93:
                                                                                                                                                                                                                 ; CODE XREF: sub_0_1F72+15 j
                                                                                                          a, 1(ix)
                                                                                      ld
 1F96 3D
1F97 CA EC 20
1F9A DD 7E 02
1F9D 1F
                                                                                      dec
```

jp ld

rra

jp rra

1F9E DA AC 1F

Z, loc_0_20EC

C, loc 0 1FAC

```
1FA2 DA E5 1F
                                                                                                                                  jр
                                                                                                                                                                C, loc_0_1FE5
1FA2 DA E5 1F
1FA6 DA EF 1F
1FA9 C3 53 20
1FAC
1FAC
1FAC
1FAC D9
1FAD DD 34 05
1FB0 DD 7E 17
1FB3 DD BE 05
1FB6 C2 CE 1F
1FB9 DD 7 15
                                                                                                                                  rra
                                                                                                                                                                C, loc_0_1FEF
loc_0_2053
                                                                 loc_0_1FAC:
                                                                                                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1F72+2C|j
                                                                                                                                  exx
                                                                                                                                                                 5(ix)
                                                                                                                                  inc
ld
                                                                                                                                                               5(ix)
a, 0x17(ix)
5(ix)
NZ, loc_0_1FCE
a, 0x15(ix)
                                                                                                                                 cp
jp
ld
1FB9 DD 7E 15
1FBC 07
1FBB 07
1FBE C6 15
1FC0 DD 77 07
1FC3 DD 7E 02
1FC6 EE 07
1FC8 DD 77 02
1FC8 C3 BA 21
                                                                                                                                 rlca
rlca
add
                                                                                                                                                                a, #0x15
7(ix), a
a, 2(ix)
#7
                                                                                                                                                                             #0x15
                                                                                                                                                                                                                                                                                                                            ; switch downwards (sideways) barrel to rolling barrel
                                                                                                                                  1d
                                                                                                                                 ld
xor
ld
                                                                                                                                                                 2(ix),
                                                                                                                                  jр
                                                                                                                                                                 loc 0 21BA
1FCE
1FCE
1FCE
1FCE DD 7E 0F
                                                                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_1F72+44<sup>†</sup> j ; sub_0_1F72+199<sup>‡</sup> j
                                                                  loc_0_1FCE:
1FCE DD 7E 0F

1FCE

1FD1 3D

1FD2 C2 DF 1F

1FD5 DD 7E 07

1FD8 EE 01

1FDA DD 77 07

1FDD 3E 04
                                                                                                                                 ld
dec
                                                                                                                                                                a, 0xF(ix)
                                                                                                                                                                NZ, loc_0_1FDF
a, 7(ix)
#1
7(ix), a
                                                                                                                                  jp
ld
                                                                                                                                                                                                                                                                                                                            ; animate sideways barrel sprite
                                                                                                                                 xor
ld
ld
                                                                                                                                                                 a, #4
1FDF
1FDF
1FDF DD 77 0F
1FE2 C3 BA 21
                                                                   loc_0_1FDF:
                                                                                                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1F72+60 j
                                                                                                                                                                 0xF(ix), a
loc_0_21BA
                                                                                                                                  ld
                                                                                                                                  αĖ
1FE5
1FE5
1FE5
                                                                  loc_0_1FE5:
                                                                                                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1F72+30 j
1FE5 D9
1FE6 01 00 01
1FE9 DD 34 03
1FEC C3 F6 1F
                                                                                                                                  exx
                                                                                                                                                                bc, #0x100
3(ix)
loc_0_1FF6
                                                                                                                                 ld
inc
                                                                                                                                  qŗ
 1FEF
                                                                                                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1F72+34<sup>†</sup> j
                                                                   loc_0_1FEF:
 1FEF D9
                                                                                                                                  exx
1FF0 01 04 FF
1FF3 DD 35 03
1FF6
                                                                                                                                                                bc, #0xFF04
3(ix)
                                                                                                                                  ld
1FF6 DD 66 03 1FF9 DD 6E 05 1FFC 7C 1FFD E6 07 1FFF FE 03 2001 CA 5F 21 2004 2D 2005 2D 2007 CD 33 23 2008 2C 2000 C 2C 2000 7C 2000 DD 77 05
                                                                                                                                                                                                                                                                                                                            ; CODE XREF: sub 0 1F72+7A j
 1FF6
                                                                  loc_0_1FF6:
                                                                                                                                 ld
ld
ld
                                                                                                                                                                h, 3(ix)
1, 5(ix)
a, h
#7
                                                                                                                                 and
cp
                                                                                                                                                                 Z, loc_0_215F
                                                                                                                                  jp
dec
                                                                                                                                 dec
dec
call
                                                                                                                                                                 sub_0_2333
                                                                                                                                  inc
inc
                                                                                                                                  inc
ld
                                                                                                                                                                a, 1
5(ix), a
sub_0_23DE
sub_0_24B4
a, 3(ix)
#0x1C
200D 7D
200E DD 77 05
2011 CD DE 23
2014 CD B4 24
2017 DD 7E 03
201A FE 1C
201C DA 2F 20
201F FE E4
2021 DA BA 21
                                                                                                                                  ld
                                                                                                                                 call
call
ld
                                                                                                                                 cp
jp
                                                                                                                                                                 C, loc_0_202F
#0xE4 ; 'õ'
                                                                                                                                                                TUXE4 ; '0'
C, loc_0_21BA
                                                                                                                                  jр
2024 AF
2025 DD 77 10
2028 DD 36 11 60
202C C3 38 20
                                                                                                                                                                 a

0x10(ix), a

0x11(ix), #0x60; 121

loc_0_2038
                                                                                                                                  xor
                                                                                                                                 ld
ld
                                                                                                                                  jр
202F
202F
202F
202F
202F AF
                                                                 loc_0_202F:
                                                                                                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1F72+AA j
                                                                                                                                  xor
2030 DD 36 10 FF
2034 DD 36 11 A0
2038
                                                                                                                                                                 0x10(ix), #0xFF
0x11(ix), #0xA0 ; 'á'
                                                                                                                                  1d
                                                                                                                                  ld
                                                                                                                                                                                                                                                                                                                            ; CODE XREF: sub 0 1F72+BA1 i
 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 06 204C DD 36 02 08 2050 3 RA 21 RA 2050 03 RA 21 RA 2050 
                                                                                                                                                                0x12(ix), #0xFF

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

0x14(ix), a

0xE(ix), a

4(ix), a

6(ix), a

2(ix), #8

loc 0.21BA
                                                                                                                                 ld
ld
                                                                                                                                  ld
ld
                                                                                                                                 ld
ld
ld
204C DD 36 02
2050 C3 BA 21
2053
2053
2053
2053
2053 D9
2054 CD 9C 23
2057 CD 2F 2A
205A A7
205B C2 83 20
205E DD 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
                                                                                                                                  jp
                                                                                                                                                                 loc_0_21BA
                                                                                                                                                                                                                                                                                                                          ; CODE XREF: sub_0_1F72+37 j
                                                                  loc 0 2053:
                                                                                                                                 exx
call
call
                                                                                                                                                                sub_0_239C
sub_0_2A2F
                                                                                                                                  and
                                                                                                                                                               a

NZ, loc_0_2083

a, 3(ix)

a, #8

#0x10

C, loc_0_2079

sub_0_2484
                                                                                                                                  jp
ld
                                                                                                                                  add
                                                                                                                                 cp
jp
call
                                                                                                                                                                 a, 0x10(ix)
#1
                                                                                                                                  ld
and
200E E6 01
2070 07
2071 07
2072 4F
2073 CD DE 23
2076 C3 BA 21
2079
                                                                                                                                 rlca
rlca
                                                                                                                                  1d
                                                                                                                                                                 sub_0_23DE
loc_0_21BA
                                                                                                                                  call
                                                                                                                                  jp
                                                                 loc_0_2079:
                                                                                                                                                                                                                                                                                                                            ; CODE XREF: sub_0_1F72+F3 j
```

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
                                                                   xor
207A DD 77 00
207D DD 77 03
2080 C3 BA 21
2083
                                                                                  0(ix), a
                                                                   ld
                                                                                   3(ix), a
loc_0_21BA
                                                                   ld
                                                                   jp
 2083
 2083
2083 DD 34 0E
2086 DD 7E 0E
                                  loc_0_2083:
                                                                                                                                                                   ; CODE XREF: sub_0_1F72+E9<sup>†</sup>j
                                                                  inc
ld
                                                                                  0xE(ix)
a, 0xE(ix)
2086 DD 7E 0E
2089 3D
2088 CA A2 20
208D 3D
208E CA C3 20
2091 DD 7E 10
2094 3D
2095 3E 04
2097 C2 9C 20
209A 3E 02
209C
209C
209C DD 77 02
209C
209C DD 77 02
20A2
20A2
                                                                                  a
Z, loc_0_20A2
                                                                   dec
                                                                   jp
dec
                                                                                   a
Z, loc_0_20C3
                                                                   jp
ld
dec
                                                                                   a, 0x10(ix)
a
                                                                                  a, #4
NZ, loc_0_209C
                                                                   jp
ld
                                                                                   a, #2
                                   loc_0_209C:
                                                                                                                                                                   ; CODE XREF: sub_0_1F72+125<sup>†</sup>j
                                                                   ld
                                                                                   2(ix), a loc_0_21BA
20A2
20A2 DD 7E 15
20A5 A7
20A6 C2 B5 20
20A9 21 05 62
20AC DD 7E 05
20AF D6 16
20B1 BE
                                                                                                                                                                   ; CODE XREF: sub_0_1F72+118 j
                                  loc_0_20A2:
                                                                  ld
and
                                                                                  a, 0x15(ix)
                                                                                   NZ, loc_0_20B5
                                                                   jp
ld
                                                                                  hl, #mario_x_coord
a, 5(ix)
#0x16
                                                                  ld
sub
                                                                                                                                                                   ; check har far mario has fallen when jumping
                                                                   ср
                                                                                   (hl)
20B1 BE
20B2 D2 C3 20
20B5
20B5
20B5 DD 7E 10
                                                                   jp
                                                                                   NC, loc_0_20C3
                                  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
                                                                   jp
ld
                                                                                   NZ, loc_0_20E1
                                                                                  0x11(ix), a
0x10(ix), #0xFF
                                                                   ld
20C3
20C3 CD 07 24
                                  loc_0_20C3:
                                                                                                                                                                   ; CODE XREF: sub_0_1F72+11C<sup>†</sup>j; sub_0_1F72+140<sup>†</sup>j ...
 20C3
20C3 20C6 CB 3C 20C8 CB 1D 20CA CB 3C 20CC CB 1D 74 12 20D1 DD 75 13 20D4 AF 20D5 DD 77 14 20DB DD 77 06 20DE C3 BA 21
                                                                   call
                                                                                   sub_0_2407
                                                                  srl
rr
                                                                  srl
rr
ld
ld
                                                                                  h
1
                                                                                   0x12(ix), h
0x13(ix), l
                                                                                   a
0x14(ix), a
4(ix), a
6(ix), a
                                                                   xor
                                                                   ld
ld
                                                                   ld
20DE C3 BA 21
20E1
20E1
20E1
20E1
                                                                   jp
                                                                                   loc_0_21BA
                                                                                                                                                                   ; CODE XREF: sub_0_1F72+147 j
                                  loc_0_20E1:
20E1 DD 36 10 01
20E5 DD 36 11 00
20E9 C3 C3 20
20EC
20EC
                                                                  ld
ld
jp
                                                                                  0x10(ix), #1
0x11(ix), #0
loc_0_20C3
                                   loc_0_20EC:
                                                                                                                                                                   ; CODE XREF: sub_0_1F72+25 j
20EC D9
20ED CD 9C 23
20F0 7C
20F1 D6 1A
20F3 DD 46 19
                                                                                   sub_0_239C
                                                                   call
20ED CD 9C 23
20F0 7C
20F1 D6 1A
20F3 DD 46 19
20F6 B8
20F7 DA 04 21
20FA CD 2F 2A
20FD A7
                                                                                  a, h
#0x1A
b, 0x19(ix)
                                                                   14
                                                                   sub
ld
                                                                  cp
jp
call
                                                                                   b
                                                                                   C, loc_0_2104
sub_0_2A2F
20FD A7
20FE C2 18 21
2101 CD B4 24
2104
2104
                                                                                  NZ, loc_0_2118
sub_0_24B4
                                                                   jp
call
                                  loc 0 2104:
                                                                                                                                                                  ; CODE XREF: sub 0 1F72+185 i
2104 DD 7E 03
2107 C6 08
2109 FE 10
2108 D2 CE 1F
                                                                                  a, 3(ix)
a, #8
#0x10
                                                                  1d
                                                                   add
                                                                   ср
                                                                   jp
xor
ld
                                                                                   NC, loc_0_1FCE
210B D2 CE IF
210E AF
210F DD 77 00
2112 DD 77 03
2115 C3 BA 21
2118
2118
                                                                                   a = 0(ix), a
                                                                   ld
                                                                                   3(ix), a
loc_0_21BA
                                                                   jp
2118
2118 DD 7E 05
211B FE 00
211D DA 46 21
2120 DD 7E 07
2123 E6 FC
2125 F6 01
2127 DD 77 07
212A AF
                                  loc_0_2118:
                                                                                                                                                                   ; CODE XREF: sub 0 1F72+18C j
                                                                                  a, 5(ix)

#0xE0; 'O'

C, loc_0_2146

a, 7(ix)

#0xFC; '3'
                                                                  ld
                                                                  cp
jp
ld
                                                                  and
or
ld
                                                                                                                                                                   ; switch falling (sideways) barrel to rolling bounce barrel
                                                                                   #1
7(ix), a
212A AF
212B DD 77 01
212E DD 77 02
2131 DD 36 10 FF
2135 DD 77 11
2138 DD 77 12
213B DD 36 13 B0
213F DD 36 0E 01
2143 C3 53 21
                                                                   xor
                                                                                 ld
ld
ld
                                                                   ld
                                                                  ld
ld
ld
```

; CODE XREF: sub 0 1F72+1AB i

; CODE XREF: sub_0_1F72+1D1 j

0xE(ix), #3
loc_0_2153

sub_0_2407 sub_0_22CB a, 5(ix) 0x19(ix), a

0x14(ix), a

jp

call

call ld

ld

xor

1d ld

loc 0 2146:

loc_0_2153:

2146 2146 2146 2146 2146 CD 07 24

AF

2153 DD 77 14 2156 DD 77 04

214F

CD CB 22 DD 7E 05 DD 77 19

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
2159 DD 77 06
215C C3 BA 21
215F
                                                           ld
                                                                         6(ix), a
loc_0_21BA
                                                           jр
                                                                                                                                                 ; CODE XREF: sub_0_1F72+8F<sup>†</sup>j
                              loc_0_215F:
                                                                        a, 1
a, #5
d, a
a, h
bc, #6
215F 7D
                                                           ld
215F 7D
2160 C6 05
2162 57
2163 7C
2164 01 15 00
2167 CD 6D 21
216A C3 BA 21
216A
                                                           add
                                                           ld
ld
                                                                                #0x15
                                                           ld
                                                                        sub_0_216D
loc_0_21BA
_1F72
                                                           call
jp
                              ; End of function sub_0
216A
216D
216D
216D
                                                        SUBROUTINE
216D 216D 2216D 2216D 22170 3D 21717 CO 2172 78 2175 DD 77 17 2178 3A 48 63 2176 AP 217C CA B2 21 217F 3A 05 62 2182 D6 04 2184 BA 2185 D8 2186 3A 80 63
                               sub_0_216D:
                                                                                                                                                ; CODE XREF: sub_0_1F72+1F5\p
                                                           call
                                                                         sub_0_236E
                                                           dec
                                                           ret
ld
                                                                         NZ
                                                                        a, b
#5
                                                           sub
                                                                         0x17(ix),
                                                           ld
                                                           ld
and
                                                                         a, (unk_0_6348)
                                                                         a
Z, loc_0_21B2
                                                           jp
ld
                                                                        a,
#4
d
                                                                              (mario_x_coord)
                                                           sub
                                                           cp
ret
2186 3A 80 63
2189 1F
218A 3C
218B 47
                                                           ld
rra
inc
ld
                                                                         a, (unk_0_6380)
                                                                         b, a
218B 47
218C 3A 18 60
218F 4F
2190 E6 03
                                                           ld
ld
                                                                              (random_no)
```

```
and
2190 B6 05
2192 B8
2193 D0
2194 21 10 60
2197 3A 03 62
2198 B1 D0 01
                                                                  cp
ret
ld
ld
                                                                                  b
                                                                                 NC
hl, #controller_in
                                                                                 nn, #controller_in

a, (mario_y_coord)

e

z, loc_0_21B2

NC, loc_0_21A9

0, (h1)

z, loc_0_21AE

loc_0_21B2
                                                                  cp
jp
jp
bit
219A BB
219B CA B2 21
219E D2 A9 21
21A1 CB 46
21A3 CA AE 21
21A6 C3 B2 21
21A9
21A9
                                                                                                                                                                  ; right?
; no, skip
                                                                  qį
qį
21A9
21A9 CB 4E
21AB C2 B2 21
                                                                                                                                                                  ; CODE XREF: sub_0_216D+31<sup>†</sup>j
                                  loc_0_21A9:
                                                                                 1, (hl)
NZ, loc_0_21B2
                                                                                                                                                                  ; left?
; yes, skip
                                                                  jр
21AE
21AE
21AE 79
21AF E6 18
                                  loc_0_21AE:
                                                                                                                                                                  ; CODE XREF: sub_0_216D+36 j
                                                                  ld
                                                                                  a, c
#0x18
                                                                  and
21B1 C0
21B2
21B2
21B2 DD 34 07
                                                                  ret
                                                                                  NZ
                                                                                                                                                                  ; CODE XREF: sub_0_216D+F<sup>†</sup>j
; sub_0_216D+2E<sup>†</sup>j ...
; sprite tile #
                                  loc_0_21B2:
21B2
                                                                  inc
                                                                                  7(ix)
21B5 DD CB 02 C6
21B9 C9
                                                                  set
ret
                                                                                  0, 2(ix)
                                                                                                                                                                      switch rolling barrel to going-down-ladder barrel
                                  ; End of function sub_0_216D
21B9
21B9
21BA
21BA
                                                                                                                                                                  ; CODE XREF: sub_0_1F72+59<sup>†</sup>j; sub_0_1F72+70<sup>†</sup>j ...
                                  loc_0_21BA:
21BA
21BA D9
21BA
21BB DD 7E 03
                                                                                       3(ix)
                                                                                                                                                                  ; set sprite X
                                                                  ld
                                                                  ld
inc
ld
                                                                                  (hl), a
21BE
21BF 77
21BF 2C
21C0 DD 7E 07
21C3 77
                                                                                 1
a, 7(ix)
(h1), a
                                                                                                                                                                  ; set sprite tile #
                                                                  ld
                                                                  inc
ld
ld
21C4
                                                                                  1
a, 8(ix)
(hl), a
21C4 2C
21C5 DD 7E 08
21C8 77
21C9 2C
                                                                                                                                                                  ; set sprite vflip & palette
                                                                                  1
a, 5(ix)
(h1), a
loc_0_1F8D
                                                                  inc
21CA DD 7E 05
                                                                  1d
                                                                                                                                                                  ; set sprite Y
21CD 77
21CE C3 8D 1F
                                                                  qŗ
21CE
21D1 80 FE
21D1
                                  attract_mario_inputs:.dw 0xFE80
                                                                                                                                                                  ; DATA XREF: next_attract_action o 
; 1st byte is input, 2nd is timer
21D1
21D3 01 C0
21D5 04 50
21D7 02 10
21D9 82 60
21DB 02 10
                                                                  .dw 0xC001
.dw 0x5004
                                                                  .dw 0x1002
.dw 0x6082
.dw 0x1002
21DD 82 CA
21DF 01 10
21E1 81 FF
21E3 02 38
                                                                  .dw 0xCA82
.dw 0x1001
.dw 0xFF81
.dw 0x3802
         02 38
01 80
02 FF
04 80
21E5
21E7
21E9
                                                                  .dw 0x8001
.dw 0xFF02
.dw 0x8004
21EB 04 60
                                                                   .dw
                                                                          0x6004
21EB 04
21ED 80
21EE
21EE
                                                                   .db 0x80
                                                                  SUBROUTINE
21EE
21EE
21EE
                                                                                                                                                                  ; CODE XREF: 0000:19771p
                                  next_attract_action:
                                                                                 de, #attract_mario_inputs
hl, #attract_movement_entry
a, (hl)
         11 D1 21
21 CC 63
7E
07
83
5F
1A
32 10 60
21EE
21F1
21F4
21F5
21F6
21F7
21F8
21F9
                                                                  ld
ld
                                                                                                                                                                 ; get entry
; convert to word
; add to base
; ptr to entry
; lst byte of entry
; store simulated inputs
                                                                  ld
rlca
                                                                                  a, e
e, a
a, (de)
(controller_in), a
                                                                  add
                                                                  ld
ld
                                                                  ld
21FC 2C
21FD 7E
                                                                  inc
ld
                                                                                  a, (hl)
                                                                                                                                                                  ; get movement timer
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
21FE 35
21FF A7
2200 C0
2201 1C
2202 1A
2203 77
2204 2D
2205 34
2206 C9
2206
                                                                        (hl)
                                                                                                                                               ; done?
                                                           and
                                                                                                                                                 no, return
ptr 2nd byte of entry
get 2nd byte
store as timer
back to entry
next entry
                                                          ret
inc
ld
                                                                        NZ
                                                                        e
a, (de)
(hl), a
                                                           ld
                                                                        (hl)
                                                           ret
2206 C9
2206
2207
2207
2207
2207
2207
2207
2209 F7
2208 3A 1A 60
220D 1F
220E 21 80 62
2211 7E
2212 DA 19 22
2215 21 88 62
2218 7E
2219
2219 E5
221A EF
221B 27
221C 22 59 22
221F 99
2220 22 A2 22
                              ; End of function next_attract_action
                                                        SUBROUTINE
                              sub_0_2207:
                                                                                                                                               ; CODE XREF: 0000:199B↑p
                                                                        a, #2
0x30
a, (gen_purpose_timer)
                                                          1d
                                                          rst
ld
                                                                                                                                              ; return if level bit not set
                                                           rra
                                                          ld
ld
jp
ld
                                                                        hl, #unk_0_6280
                                                                        a, (h1)
C, loc_0_2219
h1, #unk_0_6288
a, (h1)
                                                           ld
                               loc_0_2219:
                                                                                                                                               ; CODE XREF: sub_0_2207+B<sup>†</sup>j
                                                          push
                                                                        hl
                                                          rst
daa
ld
sbc
                                                                        0x28
                                                                                                                                               ; go!
                                                                        (loc_0_2259), hl
221F 99
2220 22 A2 22
2223 00
2224 00
2225 00
2226 00
2227 E1
2228 2C
2229 35
                                                                        (loc_0_22A2), hl
                                                          ld
nop
nop
nop
nop
pop
inc
dec
                                                                        hl
(hl)
                                                          jp
dec
inc
inc
inc
                                                                        NZ, loc_0_223A
l
(h1)
                                                                        sub_0_2243
                                                           ld
                                                                        a, #1
(unk_0_621A), a
                                                           14
                                                           ret
                               loc_0_223A:
                                                                                                                                               ; CODE XREF: sub_0_2207+23 j
                                                          call
                                                                        sub_0_2243
 223E AF
223F 32 1A 62
2242 C9
2242
                                                          xor
ld
ret
                                                                         (unk_0_621A), a
; End of function sub_0_2207
                                                         SUBROUTINE
                                                                                                                                                 CODE XREF: sub_0_2207+2A\p sub_0_2207+34\p ...
                               sub_0_2243:
                                                           ld
                                                                             (mario_x_coord)
                                                           cp
jp
ld
                                                                        NC, loc_0_2257
a, (mario_jumping)
                                                          and
jp
ld
                                                                        NZ, loc_0_2257
a, (mario_y_coord)
(h1)
                                                           ср
                              loc_0_2257:
                                                                                                                                               ; CODE XREF: sub_0_2243+5<sup>†</sup> j ; sub_0_2243+C<sup>†</sup> j
2257 E1
2257
2258 C9
2258
2258
2259*
2259*
2259*
                              pop hl ret ; End of function sub_0_2243
                              loc_0_2259:
                                                                                                                                               ; DATA XREF: sub_0_2207+15 w
                                                          pop
inc
hl
                                                                        1
1
1
                                                          inc
inc
dec
ret
ld
ld
dec
inc
call
                                                                        (hl)
NZ
                                                                        a, #4
(hl), a
                                                                            #4
                                                                         (hl)
                                                                        sub_0_22BD
                                                                        a, #0x78; 'x'
(h1)
NZ, loc_0_2275
                                                          ld
cp
jp
dec
dec
inc
inc
inc
                                                                        1
(hl)
```

; CODE XREF: 0000:226B1i

; CODE XREF: 0000:228B-i

loc 0 2275:

loc_0_2281:

dec call

1d

cp jp

1d

sub_0_2243

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

hl, #mario_x_coord

NC, loc_0_228A

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

2281 21 05 62

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
                                                           inc
call
                                                                         (hl)
2285 CD C0 3F
2288 34
2289 C9
228A
                                                                         sub 0 3FC0
                                                                         (hl)
228A
228A
228A 1F
228B DA 81 22
                              loc_0_228A:
                                                                                                                                                ; CODE XREF: 0000:227E†j
                                                           rra
                                                                         C, loc_0_2281
                                                           jр
228E 1F
228F 3E 01
2291 DA 95 22
2294 AF
                                                          rra
ld
                                                                        a, #1
C, loc_0_2295
                                                           jр
                                                           xor
loc_0_2295:
                                                                                                                                                ; CODE XREF: 0000:2291 j
                                                           ld
                                                                         (unk_0_6222), a
                                                           ret
                                                          pop
ld
                                                                              (random_no)
                                                                         a, (random
#0x3C ; '<</pre>
                                                           and
                                                          ret
                                                                         NZ
(hl)
                                                           ret
                              loc_0_22A2:
                                                                                                                                                ; DATA XREF: sub_0_2207+19 w
                                                          pop
inc
inc
inc
                                                                        hl
1
1
1
                                                          dec
ret
ld
                                                                         (h1)
                                                                        NZ
(hl), #2
22AB 2D 22AC 35 22AD CD BD 22 22BO 3E 68 22B3 CO 22B4 AF 22B7 2D 22B8 2D 22B8 2D 22B9 70 22BA 2D 22BB 77 22BC C9
                                                           dec
                                                          dec
call
ld
                                                                         (h1)
                                                                         sub_0_22BD
                                                                        a, #0x68; 'h'
                                                          cp
ret
xor
ld
dec
dec
ld
                                                                         a
b, #0x80 ; 'Ç'
                                                                         (hl), b
                                                           dec
ld
22BA 2D
22BB 77
22BC C9
22BD
22BD
22BD
22BD
22BD
                                                                         (hl), a
                                                           ret
                                                           SUBROUTINE
                              sub_0_22BD:
                                                                                                                                               ; CODE XREF: 0000:22651p; 0000:22AD1p
ld
bit
ld
                                                                        a, (hl)
3, l
de, #soft_sprite_ram+0x4B
                                                           jp
ld
                                                                         NZ, loc_0_22C9
de, #soft_sprite_ram+0x47
                              loc 0 22C9:
                                                                                                                                               ; CODE XREF: sub 0 22BD+61j
                                                          1d
                                                                         (de), a
                              ret
; End of function sub_0_22BD
22CB
22CB
22CB
                                                           SUBROUTINE
22CB
22CB
22CB 3A 48 63
22CE A7
22CF CA E1 22
22D2 3A 80 63
22D5 3D
22D6 EF
                              sub_0_22CB:
                                                                                                                                                ; CODE XREF: sub_0_1F72+1D7 p
                                                                        a, (unk_0_6348)
                                                           and
                                                                        a
Z, loc_0_22E1
a, (unk_0_6380)
                                                           jp
ld
dec
                                                                         a
0x28
                                                           rst
                                                                                                                                                ; go!
22D6 EF
22D6
22D7 F6 22
22D9 F6 22
22DB 03 23
22DD 03 23
22DF 1A 23
22E1
                                                           .dw loc_0_22F6
.dw loc_0_22F6
.dw loc_0_2303
.dw loc_0_2303
.dw loc_0_231A
                                                                                                                                                ; Jump table
22E1 22E1 22E1 3A 29 62 22E4 47 22E5 05 22E6 3E 01 22E8 CA F9 22 22EB 05 22EC 3E B1 22EC CA F9 22 22F1 3E E9 22E7 3 C3 F9 22 22F6
                              loc_0_22E1:
                                                                                                                                                ; CODE XREF: sub_0_22CB+4<sup>†</sup> j
                                                                         a, (level)
                                                                        b, a
b
a, #1
Z, 10
                                                           ld
dec
                                                          ld
jp
dec
                                                                              loc_0_22F9
                                                                        a, #0xB1; 
Z, loc_0_22F9
a, #0xE9; 'Ú
                                                           αĖ
22F6
22F6
22F6
                                                                                                                                                ; DATA XREF: sub_0_22CB+C<sup>†</sup>o; sub_0_22CB+E<sup>†</sup>o
                              loc_0_22F6:
22F6 3A 18 60
22F6 3A 18 60

22F6

22F9

22F9

22F9 DD 77 11

22F9

22FC E6 01
                                                          ld
                                                                        a, (random_no)
                                                                                                                                                ; CODE XREF: sub_0_22CB+1D<sup>†</sup>j; sub_0_22CB+23<sup>†</sup>j ...
                              loc_0_22F9:
                                                          ld
and
                                                                         0x11(ix), a #1
22FE 3D
22FF DD 77 10
                                                                        a
0x10(ix), a
                                                           ld
                                                           ret
```

; DATA XREF: sub_0_22CB+10[†]o; sub_0_22CB+12[†]o

; End of function sub_0_22CB

ld

a, (random_no)

loc_0_2303:

2303 3A 18 60 2303

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
                                                                        0x11(ix), a
a, (mario_y_coord)
2306 DD 77 11
2309 3A 03 62
                                                           ld
2309 3A 03 62
230C DD BE 03
230F 3E 01
2311 D2 16 23
                                                           ld
                                                                        a, (mario_y_co
3(ix)
a, #1
NC, loc_0_2316
                                                           cp
ld
                                                           jp
dec
2311 D2 16 23
2314 3D
2315 3D
2316
2316 DD 77 10
2319 C9
231A
231A
                                                           dec
                              loc_0_2316:
                                                                                                                                                ; CODE XREF: 0000:2311†j
                                                           ld
                                                                        0x10(ix), a
loc_0_231A:
                                                                                                                                                ; DATA XREF: sub_0_22CB+14 o
                                                          ld
sub
ld
                                                                        a, (mario_y_co
3(ix)
c, #0xFF
C, loc_0_2326
c
                                                                              (mario_y_coord)
                                                           jp
inc
                              loc_0_2326:
                                                                                                                                               ; CODE XREF: 0000:23221 i
                                                           rlca
                                                          rlca
                                                           rl
                                                          ld
ld
                                                                         0x10(ix), c
0x11(ix), a
                                                          ret
                                                           SUBROUTINE
2333
2333 3E OF
2333
2335 A4
                                                                                                                                                ; CODE XREF: sub_0_1AC3+221\frac{1}{p}
; sub_0_1F72+95\frac{1}{p} \ldots
                              sub_0_2333:
                                                                        a, #0xF
h
                                                           ld
                                                           and
2336 05
2337 CA 42 23
233A FE 0F
                                                          dec
jp
                                                                         b
Z
                                                                         Z, loc_0_2342
#0xF
233A FE 0F
233C D8
FF
233F C3 47 23
2342
2342
2342
2344 D0
2345 06 01
2347
2347
2347
2347
2349 BD
                                                           cp
ret
                                                          ld
jp
                                                                            . #0xFF
                                                                         loc_0_2347
                              loc_0_2342:
                                                                                                                                                ; CODE XREF: sub_0_2333+4<sup>†</sup> j
                                                                        #1
NC
b, #1
                                                           ср
                                                           ret
ld
                              loc_0_2347:
                                                                                                                                                ; CODE XREF: sub_0_2333+Cfj
                                                                        a, #0xF0 ; '-'
                                                           ld
2349 BD
234A CA 60 23
234D 3E 4C
                                                           cp
jp
ld
                                                                        Z, loc_0_2360
a, #0x4C; 'L
l
234F BD
2350 CA 66 23
2353 7D
2354 CB 6F
                                                           cp
jp
ld
                                                                         Z, loc_0_2366
                                                                         a,
5,
                                                           bit
2354 CB 6F
2356 CA 5C 23
2359
2359 90
235A
235A
235A 6F
235B C9
235C
235C
235C
235C
235C 235C
235C 235C 35A 23
                                                           jp
                                                                         Z, loc_0_235C
                              loc_0_2359:
                                                                                                                                                ; CODE XREF: sub_0_2333+2F|j
                                                                        b
                                                          sub
                              loc_0_235A:
                                                                                                                                                ; CODE XREF: sub_0_2333+2A|j
                                                           ret
                              loc_0_235C:
                                                                                                                                                ; CODE XREF: sub_0_2333+23†j
; sub_0_2333+38†j
235C 80
235C 235C 23
2360 2360
2360 B 7C
2362 C2 59 23
2365 C9
2366 2366
2366 2366
2366 7C
2367 FE 98
2369 D8
2369 D8
2368 C3 5C 23
2368 C3 5C 23
2368 C3 5C 23
                                                                         a, b
loc_0_235A
                                                           add
                                                           jр
                                                                                                                                                ; CODE XREF: sub_0_2333+17<sup>†</sup> j
                               loc_0_2360:
                                                           bit
                                                                        7, h
NZ, loc_0_2359
                                                           jр
                                                           ret
                              loc_0_2366:
                                                                                                                                                ; CODE XREF: sub 0 2333+1D1i
                                                          ld
cp
                                                                         a, h
#0x98 ; 'ÿ'
                                                           ret
ld
                                                                            1
                              jp
; End of function sub_0
                                                                        loc_0_235C
_2333
236B
236E
236E
236E
236E
                                                       SUBROUTINE
236E 21 00 63 236E 2371 2371 2371 ED B1 2373 C2 9A 23 2376 E5 2378 01 14 00 2378 09 237C 0C 237D 5F 237E 7A 237F BE
236E
                              sub_0_236E:
                                                                                                                                                ; CODE XREF: sub_0_1AC3+50\uparrowp ; sub_0_216D\uparrowp ...
                                                          ld
                                                                        hl, #unk_0_6300
                              loc_0_2371:
                                                                                                                                               ; CODE XREF: sub_0_236E+1E|j
                                                           cpir
                                                                         NZ, loc_0_239A
                                                           jр
                                                           push
                                                                         hl
                                                                        bc, #0x
hl, bc
                                                           push
ld
                                                                               #0×14
                                                           add
                                                                         e, a
a, d
(hl)
                                                           inc
                                                           ld
ld
        BE
                                                          cp
jp
add
cp
jp
ld
ld
2380 CA 8F 23
2383 09
2384 BE
                                                                        Z, loc_0_238F
hl, bc
(hl)
```

Z, loc_0_2395 d, a a, e bc

loc_0_2371

h1

pop

2384 BE 2385 CA 95 23 2388 57 2389 7B 238A C1

238C C3 71 23

238B E1

a, c #0xF0 ; '-'

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

; CODE XREF: sub_0_1AC3+231p

SUBROUTINE

and ld ld

ld sbo ret; End of function sub_0_2407

sub_0_241F:

241F

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
 241F 11 00 01
                                                                                                                                                   ; sub_0_1AC3+102\p ...
                                                                           de, #0x100
a, (mario_y_coord)
#0x16
 241F
2422 3A 03 62
2425 FE 16
2427 D8
2428 15
2429 1C
242A FE EA
242C D0
242D 1D
 241F
                                                            ld
cp
ret
                                                                           d
                                                             dec
inc
                                                                           e
#0xEA ; 'Û'
                                                            cp
ret
 242C D0
242E 3A 27 62
2431 OF
2432 D0
2433 3A 05 62
2436 FE 58
2438 D0
2439 3A 03 62
243C FE 6C
243E D0
243F 14
2440 C9
                                                             dec
                                                                           e a, (level_type)
                                                             ld
                                                             rrca
                                                                           NC
                                                             ret
                                                             ld
                                                                           a, (mario_x_coord)
#0x58; 'X'
                                                            cp
ret
ld
                                                                          #0x56 , __
NC
a, (mario_y_coord)
#0x6C ; '1'
                                                             cp
ret
 inc
                                                             ret
                               ; End of function sub_0_241F
                                                          SUBROUTINE
                                                                                                                                                   ; CODE XREF: 0000:0D62<sup>†</sup>p; anti-tamper check?
                               sub_0_2441:
                                                                          hl, #aNINTENDO+1
a, #0x5E; '^'
b, #6
                                                             14
                                                            ld
ld
2448 06 06 06 2448 2448 86 2449 23 2440 10 FC 244C FD 21 10 63 2450 A7 2451 CA 56 24 2456 3A 27 62 2459 3D 245A 21 E4 3A 2456 CA 71 24 2460 3D 2461 21 5D 3B 2464 CA 71 24 2467 3D 2468 21 E5 3B 2468 CA 71 24 2466 21 8B 3C 2471 2471 2471
                                                                          a, (hl)
hl
                               loc_0_2448:
                                                                                                                                                   ; CODE XREF: sub 0 2441+9-j
                                                             add
                                                                           loc_0_2448
                                                             dinz
                                                            ld
and
                                                                           iy, #unk_0_6310
                                                                           a
Z, loc_0_2456
                                                             jр
                                                             inc
                               loc_0_2456:
                                                                                                                                                 ; CODE XREF: sub_0_2441+10 j
                                                                           a, (level type)
                                                             ld
                                                             dec
                                                            ld
jp
dec
ld
                                                                           hl, #barrel_level_tilemap_data
Z, loc_0_2471
                                                                           hl, #cement_pie_level_tilemap_data Z, loc_0_2471
                                                             jp
                                                             dec
ld
                                                                           hl, #elevator_level_tilemap_data
                                                                           Z, loc_0_2471
hl, #rivet_level_tilemap_data
 2471
2471 DD 21 00 63
2471
2475 11 05 00
                               loc_0_2471:
                                                                                                                                                   ; CODE XREF: sub_0_2441+1C^j; sub_0_2441+23^j ...
                                                                           ix, #unk_0_6300
de, #5
 2475 11 05 00
2478
2478 7E
2478 7E
2479 A7
2474 CA 88 24
247D 3D
247E CA 9E 24
2481 FE A9
2483 C8
                                                            ld
                                                                                                                                                   ; CODE XREF: sub_0_2441+44 \mid j; sub_0_2441+5A \mid j ...
                               loc_0_2478:
                                                                           a, (hl)
                                                             ld
                                                             and
                                                             jp
dec
                                                                           Z, loc_0_2488
                                                                           Z, loc_0_249E
                                                            jp
cp
ret
add
                                                                           #0xA9
 2481 FE A9
2483 C8
2484 19
2485 C3 78 24
2488
2488
2488
                                                                           loc 0 2478
                                                             jр
                               loc_0_2488:
                                                                                                                                                  ; CODE XREF: sub_0_2441+39 j
 2488 23
2489 7E
248A DD 77 00
248D 23
248E 7E
                                                                          hl
a, (hl)
0(ix), a
                                                             ld
ld
248D 25
248E 7E
248F DD 77 15
2492 23
2493 23
2494 7E
                                                             inc
                                                                           hl
                                                                           a, (hl)
0x15(ix), a
                                                             ld
                                                             ld
                                                             inc
                                                             inc
                                                                           hl
 2494 7E
2495 DD 77 2A
2498 DD 23
                                                                           a, (hl)
0x2A(ix), a
                                                             ld
                                                             ld
                                                             inc
 249A 23
249B C3 78 24
249E
                                                             inc
                                                                           hl
                                                                           loc_0_2478
                                                             jр
 249E
249E
                               loc 0 249E:
                                                                                                                                                ; CODE XREF: sub 0 2441+3D| j
 249E 23
249F 7E
24A0 FD 77 00
                                                                           hl
                                                                                (hl)
                                                             ld
                                                                          a, (hl)
0(iy), a
                                                             ld
 24A3 23
24A4 7E
24A5 FD 77 15
24A8 23
                                                             inc
ld
ld
                                                                           h1
                                                                                (hl)
                                                                           a, (hl)
0x15(iy), a
 24A8 23
24A9 23
24AA 7E
24AB FD 77 2A
24AE FD 23
                                                             inc
                                                                           hl
                                                             inc
                                                                           hl
                                                             ld
ld
                                                                                (hl)
                                                                           a, (hl)
0x2A(iy), a
                                                             inc
 24B0 23
                                                             inc
 24BU 23
24B1 C3 78 24
24B1
                                                             jp
                                ; End of function sub_0_2441
```

SUBROUTINE

ld

cp ret ld

cp ret a, 5(ix) #0xE8; 'b'

C a, 3(ix) ; CODE XREF: sub_0_1F72+A21p
; sub_0_1F72+F61p ...

24B1

24B4 24B4 24B4 24B4 DD 7E 05

24B4 24B7 FE E8

24B9 D8 24BA DD 7E 03

24BD FE 2A 24BF D0 sub_0_24B4:

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
 24C0 FE 20
                                                                                                                     #0x20 ; ' '
                                                                                              ср
 24C2 D8
                                                                                              ret
24C2 D8
24C3 DD 7E 15
24C6 A7
24C7 CA DO 24
24CA 3E 03
24CC 32 B9 62
                                                                                             ld
and
                                                                                                                     a, 0x15(ix)
                                                                                                                     a
Z, loc_0_24D0
                                                                                              jp
ld
                                                                                              14
                                                                                                                     (unk_0_62B9), a
 24CF AF
24D0
                                                                                              xor
                                               loc 0 24D0:
                                                                                                                                                                                                                                     ; CODE XREF: sub 0 24B4+13 j
 24D0
24D0 DD 77 00 24D0 DD 77 03 24D6 21 82 60 24D9 36 03 24DB E1 24DC 3A 48 63 24DF A7 31
                                                                                              14
                                                                                                                    0(ix), a
                                                                                             ld
ld
                                                                                                                   3(ix), a
hl, #digital_snd_tmr_thump
                                                                                                                     (h1), #3
                                                                                              ld
                                                                                                                                                                                                                                     ; tmr=3
                                                                                                                   hl
a, (unk_0_6348)
                                                                                              pop
ld
                                                                                              and
24DF A7
24E0 C2 BA 21
24E3 3C
24E4 32 48 63
24E7 C3 BA 21
24E7
24E7
24E7
                                                                                             jp
inc
                                                                                                                    NZ, loc_0_21BA
                                                                                                                     a
(unk_0_6348), a
                                                jp loc_(
; End of function sub_0_24B4
                                                                                                                     loc_0_21BA
 24EA
                                                                                          SUBROUTINE
 24EA
24EA

24EA

24EA

24EA

24EC F7

24EC DD 23 25

24FO CD 91 25

24FO CD 91 25

24FO CD 96

24FC B8 69

24FC CD 97

                                               sub_0_24EA:
                                                                                                                                                                                                                                      ; CODE XREF: 0000:1992 p
                                                                                                                    a, #2
0x30
sub_0_2523
                                                                                             14
                                                                                             rst
call
                                                                                                                                                                                                                                      ; return if level bit not set
                                                                                              call
                                                                                                                     sub_0_2591
                                                                                                                    ix, #unk_0_65A0
b, #6
hl, #soft_sprite_ram+0xB8
                                                                                              ld
                                                                                             ld
ld
                                                                                                                                                                                                                                     ; 6 sprites to update
24FC
24FC DD 7E 00
24FF A7
                                                loc_0_24FC:
                                                                                                                                                                                                                                     ; CODE XREF: sub_0_24EA+2F|j
                                                                                              ld
                                                                                                                     a, 0(ix)
                                                                                              and
24FF A7
2500 CA 1C 25
2503 DD 7E 03
2506 77
2507 2C
                                                                                                                    a
Z, loc_0_251C
                                                                                              jp
ld
ld
                                                                                                                     a, 3(ix)
(hl), a
                                                                                                                                                                                                                                     ; sprite X
                                                                                              inc
                                                                                                                        7(ix)
 2508 DD 7E 07
                                                                                              ld
                                                                                                                                                                                                                                     ; sprite tile #
                                                                                              ld
inc
ld
                                                                                                                     (hl), a
                                                                                                                   l
a, 8(ix)
(hl), a
 250D DD 7E 08
                                                                                                                                                                                                                                     ; sprite v flip & palette
 2510
                                                                                              ld
2510 77
2511 2C
2512 DD 7E 05
2515 77
2516 2C
2517
2517 DD 19
                                                                                              inc
ld
                                                                                                                        , 5(ix)
                                                                                                                   a, 5(ix (hl), a
                                                                                                                                                                                                                                      ; sprite Y
                                                                                              ld
                                               loc_0_2517:
                                                                                                                                                                                                                                     ; CODE XREF: sub_0_24EA+36|j
2517 DD 19
2519 10 E1
251B C9
251C
251C
251C
251C 7D
251C 7D
251D C6 04
                                                                                              add
                                                                                                                     ix. de
                                                                                              djnz
                                                                                                                     loc_0_24FC
                                                                                              ret
                                                loc_0_251C:
                                                                                                                                                                                                                                     ; CODE XREF: sub_0_24EA+16 j
                                                                                                                    a, 1
a, #4
1, a
                                                                                              add
ld
 251F 6F
 251F 0F
2520 C3 17 25
2520
                                                jp loc_0_2517 ; End of function sub_0_24EA
SUBROUTINE
                                                sub_0_2523:
                                                                                                                                                                                                                                     ; CODE XREF: sub_0_24EA+31p
                                                                                                                   hl, #unk_0_639B
a, (hl)
                                                                                              ld
                                                                                              and
                                                                                              jp
ld
                                                                                                                    NZ, loc_0_258F
a, (unk_0_639A)
a
                                                                                              and
252E A7

252F C8

2530 06 06

2532 11 10 00

2535 DD 21 A0 65

2539

2539

2539 DD CB 00 46
                                                                                             ret
ld
ld
                                                                                                                    b, #6
de, #0x10
ix, #unk_0_65A0
                                                                                              ld
                                                loc_0_2539:
                                                                                                                                                                                                                                     ; CODE XREF: sub_0_2523+1F|j
                                                                                             bit
                                                                                                                     0, 0(ix)
2539 DD CB 00
253D CA 45 25
2540 DD 19
2542 10 F5
2544 C9
2545
                                                                                             jp
add
djnz
                                                                                                                    Z, loc_0_2545
ix, de
loc_0_2539
                                                                                             ret
 2545
2545
2545 CD 57 00
                                               loc_0_2545:
                                                                                                                                                                                                                                      ; CODE XREF: sub_0_2523+1A<sup>†</sup> j
                                                                                              call
                                                                                                                     rand
2548 CD 57 00
2548 FE 60
254A DD 36 05 7C
254E DA 58 25
2551 3A A3 62
2554 3D
2555 C2 6E 25
2558
                                                                                                                   rand

#0x60; '''

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

C, loc_0_2558

a, (unk_0_62A3)
                                                                                             cp
ld
                                                                                              jp
ld
                                                                                              jp
                                                                                                                     NZ, loc_0_256E
                                                                                                                                                                                                                                     ; CODE XREF: sub 0 2523+2B1 i
 2558
                                               loc 0 2558:
2558 DD 36 05 CC
255C 3A A6 62
255F 07
                                                                                                                    5(ix), #0xCC; | | ' | | ' a, (unk_0_62A6)
                                                                                              1d
                                                                                             rlca
 2560
2560 loc_0_2560:

2560 DD 36 03 07

2564 D2 76 25

2567 DD 36 03 F8

2568 C3 76 25

2568 ;
                                                                                                                                                                                                                                     ; CODE XREF: sub_0_2523+50|j
                                                                                                                    3(ix), #7
NC, loc_0_2576
3(ix), #0xF8; '°'
                                                                                              ld
                                                                                              jp
ld
                                                                                                                     loc_0_2576
```

; CODE XREF: sub_0_2523+321j

jp

call

ср

#0x68

loc_0_2560

loc_0_256E:

256E

256E 256E CD 57 00 2571 FE 68

2573 C3 60 25 2576

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_2523+41<sup>†</sup> j
; sub_0_2523+48<sup>†</sup> j
 2576
                                                  loc_0_2576:
 2576 DD 36 00 01
2576 DD 36 00 01
2576 DD 36 07 4B
257E DD 36 09 08
2582 DD 36 0A 03
2586 3E 7C
2588 32 9B 63
                                                                                                                           0(ix), #1
7(ix), #0x4B; 'K'
9(ix), #8
0xA(ix), #3
a, #0x7C; '|'
(unk_0_639B), a
                                                                                                    ld
ld
ld
ld
ld
                                                                                                                                                                                                                                                     ; cement pie sprite tile
 258B AF
                                                                                                    xor
258C 32 9A 63
258F
258F
                                                                                                    ld
                                                                                                                             (unk_0_639A), a
                                                   loc_0_258F:
                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_2523+51j
258F 35
2590 C9
2590
                                                                                                    dec
                                                                                                                            (hl)
                                                                                                    ret
                                                   ; End of function sub_0_2523
 2590
2590
2591
2591
2591
2591
2591
2591 DD 21 A0 65
2595 11 10 00
2598 06 06
                                                                                                 SUBROUTINE
                                                   sub_0_2591:
                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_24EA+61p
                                                                                                                            ix, #unk_0_65A0
                                                                                                    ld
                                                                                                                            de, #0x10
b, #6
                                                                                                    ld
2598 06 06
259A
259A
259A DD CB 00 46
259E CA BB 25
25A1 DD 7E 03
25A4 67
25A5 C6 07
                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_2591+2C|j
                                                   loc_0_259A:
                                                                                                                           0, 0(ix)
Z, loc_0_25BB
a, 3(ix)
h, a
a, #7
                                                                                                    bit
                                                                                                    jp
ld
ld
                                                                                                    add
25A7 FE 0E
25A9 DA D6 25
25AC DD 7E 05
25AF FE 7C
                                                                                                    cp
jp
ld
                                                                                                                            #0xE
                                                                                                                           #0xE
C, loc_0_25D6
a, 5(ix)
#0x7C; '|'
Z, loc_0_25C0
a, (unk_0_63A6)
                                                                                                    cp
jp
ld
add
25B1 CA CO 25
25B4 3A A6 63
25B7 84
                                                                                                                            a, h
3(ix), a
 25B8 DD 77 03
                                                                                                    ld
25BB 25BB DD 19
                                                   loc_0_25BB:
                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_2591+D<sup>†</sup>j; sub_0_2591+42<sup>†</sup>j ...
25BB 25BD 10 DB 25BF C9 25CC 25CC 25CC 25CC 7C 25C1 FE 80 25CG 3A A5 63 25C9 D2 CF 25CC 3A A4 63
 25BB
                                                                                                    add
                                                                                                                            ix, de
                                                                                                    djnz
                                                                                                                            loc_0_259A
                                                   loc_0_25C0:
                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_2591+20 j
                                                                                                                            a, h
#0x80 ; 'Ç'
                                                                                                    ld
                                                                                                    cp
jp
ld
                                                                                                                            Z, loc_0_25D6
a, (unk_0_63A5)
NC, loc_0_25CF
                                                                                                    jp
ld
25CC 3A A4 63
25CF
25CF
25CF 84
                                                                                                                            a, (unk_0_63A4)
                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_2591+38 j
                                                    loc_0_25CF:
                                                                                                                            a, h
3(ix),
25CF 84
25D0 DD 77 03
25D3 C3 BB 25
25D6
25D6
                                                                                                    add
                                                                                                    1d
                                                                                                                             loc_0_25BB
                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_2591+18<sup>†</sup>j; sub_0_2591+32<sup>†</sup>j
 25D6
                                                   loc_0_25D6:
25D6 21 B8 69 25D6 25D9 3E 06 25DB 90 25DC 25DC CA E7 25DF 2C 25BD 2C 25ED 2C 
                                                                                                                            hl, #soft_sprite_ram+0xB8
                                                                                                    ld
                                                                                                                            a, #6
b
                                                                                                    sub
                                                    loc_0_25DC:
                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_2591+53|j
                                                                                                    jp
inc
inc
inc
                                                                                                                            Z, loc 0 25E7
25E2 2C
25E3 3D
25E4 C3 DC 25
                                                                                                    inc
                                                                                                                            1
                                                                                                                             loc_0_25DC
                                                                                                    jр
 25E7
25E7
25E7
25E7
25E7 AF
25E8 DD 77 00
25EB DD 77 03
25EE 77
25EF C3 BB 25
                                                    loc_0_25E7:
                                                                                                                                                                                                                                                     ; CODE XREF: sub_0_2591+4B<sup>†</sup> j
                                                                                                                           a
0(ix), a
3(ix), a
(h1), a
loc_0_25BB
                                                                                                    xor
                                                                                                    1d
                                                                                                    ld
                                                                                                     ld
                                                                                                    jр
                                                    ; End of function sub_0_2591
 25EF
S U B R O U T I N E
                                                   sub_0_25F2:
                                                                                                                                                                                                                                                     ; CODE XREF: 0000:19AA1p
                                                                                                    ld
                                                                                                                            a, #2
0x30
                                                                                                    rst
call
                                                                                                                                                                                                                                                     ; return if level bit not set
                                                                                                                            sub_0_2602
                                                                                                                            sub_0_262F
sub_0_2679
                                                                                                    call
25FE CD D3 2A
2601 C9
2601
                                                                                                    call
                                                                                                                            sub_0_2AD3
                                                   ret; End of function sub_0_25F2
2601
2602
2602
2602
                                                                                                SUBROUTINE
2602
2602
2602
2602 3A 1A 60
2602
                                                                                                                                                                                                                                                      ; CODE XREF: 0000:16D5<sup>†</sup>p
; sub_0_25F2+3<sup>†</sup>p
                                                    sub_0_2602:
                                                                                                    ld
                                                                                                                            a, (gen_purpose_timer)
 2605 OF
```

rrca

jp ld dec

jp ld

call

C, loc_0_2616 hl, #unk_0_62A0 (hl)

NZ, loc_0_2616 (hl), #0x80; 'Ç'

sub_0_26DE

2606 DA 16 26 2609 21 A0 62 260C 35

260D C2 16 26 2610 36 80 2612 2C

2613 CD DE 26 2616

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
                                                                                                                                                               ; CODE XREF: sub_0_2602+4<sup>†</sup>j; sub_0_2602+B<sup>†</sup>j
                                 loc_0_2616:
2616 21 A1 62
2616 21 A1 62
2616 2619 CD E9 26
2610 32 A3 63
261F 3A 1A 60
2622 E6 1F
2624 FE 01
2626 C0
2627 11 E4 69
2628 CD A6 26
262E CD A6 26
                                                                                hl, #unk_0_62A1
sub_0_26E9
(unk_0_63A3), a
                                                                 call
ld
                                                                 1d
                                                                                 a, (gen_purpose_timer)
#0x1F
                                                                 and
                                                                cp
ret
                                                                                #1
NZ
                                                                                de, #soft_sprite_ram+0xE4
                                                                 ld
                                                                ex
call
                                                                                de, hl
sub_0_26A6
                                                                ret
262E
262E
262F
262F
                                 ; End of function sub_0_2602
                                 ; UBROUTINE SUBROUTINE
262F
262F
262F
262F
                                 sub_0_262F:
                                                                                                                                                               ; CODE XREF: sub_0_25F2+61p
262F 21 A3 62
2632 3A 05 62
2635 FE C0
2637 DA 6F 26
263A 3A 1A 60
263D 0F
                                                                                hl, #unk_0_62A3
                                                                 ld
                                                                                a, (mario_x_coord)
#0xC0; 'L'
C, loc_0_266F
a, (gen_purpose_timer)
                                                                ld
                                                                 jp
ld
263A 3A 1A 60
263D 0F
263E DA 4C 26
2641 2D
2642 35
2643 C2 4C 26
2646 36 C0
2648 2C
                                                                 rrca
                                                                                C, loc_0_264C
                                                                 qį
                                                                 dec
                                                                                1
(hl)
                                                                                NZ, loc_0_264C (hl), #0xC0; L.
                                                                 jp
ld
                                                                 inc
2649 CD DE 26
264C
264C
264C 21 A3 62
                                                                                sub_0_26DE
                                                                 call
                                                                                                                                                               ; CODE XREF: sub_0_262F+F<sup>†</sup>j; sub_0_262F+14<sup>†</sup>j ...
                                 loc_0_264C:
264C 21 A3 62
264F CD E9 26
264F CD E9 26
2652 32 A5 63
2655 ED 44
2657 3A 1A 60
265B CO
2660 2D
2661 11 EC 69
2664 EB
2665 CD A6 20
2660 2D
2660 2D
2660 11 EC 69
2664 EB
2665 CD A6 20
2668 E6 7F
266A 21 ED 69
266D 77
266E C9
                                                                                hl, #unk_0_62A3
sub_0_26E9
(unk_0_63A5), a
                                                                ld
call
ld
                                                                neg
ld
ld
                                                                                (unk_0_63A4), a
a, (gen_purpose_timer)
#0x1F
                                                                 and
                                                                 ret
                                                                                NZ
                                                                 dec
ld
                                                                                l
de, #soft_sprite_ram+0xEC
                                                                ex
call
and
ld
                                                                                de,
                                                                                       hl
                                                                                 sub_0_26A6
                                                                                #0x7F;
hl, #soft_sprite_ram+0xED
(hl), a
                                                                 ld
266E C9
266F
266F
                                 loc_0_266F:
266F
                                                                                                                                                              ; CODE XREF: sub 0 262F+81 j
266F CB 7E
2671 C2 4C 26
2674 36 FF
                                                                                7, (h1)
NZ, loc_0_264C
(h1), #0xFF
                                                                bit
                                                                 jp
ld
                                 jp loc_0_264C; End of function sub_0_262F
2676 C3 4C 26
2676
2676
2679
2679
2679
2679
2679
2679
2679 3A 1A 60
267C 0F
267D DA 8D 26
                                 ; SUBROUTINE
                                 sub_0_2679:
                                                                                                                                                               ; CODE XREF: sub 0 25F2+91p
                                                                 14
                                                                                a, (gen_purpose_timer)
                                                                 rrca
                                                                                    , loc_0_268D
                                                                 jp
ld
                                                                                hl, #unk_0_62A5
(hl)
NZ, loc_0_268D
(hl), #0xFF
2680 21 A5 62
2683 35
2680 21 A5 62
2683 35
2684 C2 8D 26
2687 36 FF
2689 2C
268A CD DE 26
268D
268D
                                                                dec
jp
ld
                                                                 call
                                                                                 sub_0_26DE
                                                                                                                                                               ; CODE XREF: sub_0_2679+4<sup>†</sup> j ; sub_0_2679+B<sup>†</sup> j
                                 loc 0 268D:
268D 21 A6 62 268D 2690 CD E9 26 63 32 A6 63 2696 3A 1A 60 2699 E6 1F 269B FE 02 269D C0 269E 11 F4 69
                                                                                hl, #unk_0_62A6
sub_0_26E9
(unk_0_63A6), a
                                                                call
ld
                                                                ld
and
                                                                                 a, (gen_purpose_timer)
#0x1F
                                                                 ср
                                                                 ret
                                                                                NZ
269E 11 F4 69
26A1 EB
                                                                                de, #soft_sprite_ram+0xF4
de, hl
sub_0_26A6
                                                                ld
ex
26A1 EB
26A2 CD A6 26
26A5 C9
26A5
26A6
26A6
                                                                call
                                                                 ret
                                 ; End of function sub_0_2679
26A6
26A6
26A6
26A6
                                                            SUBROUTINE
                                                                                                                                                               ; CODE XREF: sub_0_2602+29\p; sub_0_262F+36\p ...
                                 sub 0 26A6:
26A6 2C
26A6
26A7 1A
                                                                inc
ld
         1A
17
                                                                                a, (de)
```

26A8

26A9 DA C5 26 26AC 7E 26AD 3C

26B0 C2 B5 26 26B3 3E 50 26B5 26B5

26AE FE 53

26B5 26B5 77 26B6 7D 26B7 C6 04 26B9 6F 26BA 7E 26BB 3D

26BC FE CF 26BE C2 C3 26 rla

jp ld inc

ср

ld ld add ld ld

dec cp jp

loc 0 26B5:

C, loc_0_26C5
a, (h1)

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

NZ, loc_0_26C3

; CODE XREF: sub 0 26A6+A1i

a #0x53 ; 'S'

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

a, (hl)

```
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```

```
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26C1 3E D2
                                                                   a, #0xD2 ; 'Ê'
                                                      ld
26C3
26C3
26C3 77
26C4 C9
                            loc_0_26C3:
                                                                                                                                       ; CODE XREF: sub 0 26A6+181 j
                                                       ld
ret
                                                                    (hl), a
26C4 C9
26C5
26C5
26C5 7E
26C6 3D
26C7 FE 4F
26C9 C2 CE 26
26CC 3E 52
26CE
26CE 77
26CF 7D
26D0 C6 04
                            loc_0_26C5:
                                                                                                                                       ; CODE XREF: sub_0_26A6+3<sup>†</sup>j
                                                       ld
                                                                    a, (hl)
                                                       dec
                                                                    a
#0x4F ; 'O'
                                                       сp
                                                                    NZ, loc_0_26CE
a, #0x52; 'R'
                                                       jp
ld
                            loc_0_26CE:
                                                                                                                                       ; CODE XREF: sub_0_26A6+23 j
                                                                   (hl), a
a, l
a, #4
l, a
a, (hl)
                                                       ld
26CF 7D
26D0 C6 04
26D2 6F
26D3 7E
26D4 3C
26D5 FE D3
26D7 C2 DC
26DA 3E D0
26DC
26DC
26DC
26DC
26DD C9
26DD
26DD
26DD
                                                       ld
                                                       add
ld
ld
                                                                    a
#0xD3 ; 'Ë'
                                                       inc
                                                       cp
jp
ld
                                                                    NZ, loc_0_26DC
a, #0xD0; 'ð'
                            loc_0_26DC:
                                                                                                                                       ; CODE XREF: sub_0_26A6+31 j
                                                       ld
                                                                    (hl), a
                            ret; End of function sub_0_26A6
                                                     SUBROUTINE
26DE
26DE
26DE
26DE
26DE CB 7E
                                                                                                                                       ; CODE XREF: sub_0_2602+11\pri p ; sub_0_262F+1A\pri p ...
                            sub_0_26DE:
26DE CB 7E
26DE
26E0 CA E6 26
26E3 36 02
                                                                    7, (h1)
Z, loc_0_26E6
(h1), #2
                                                       bit
                                                       jp
ld
26E3 36 02
26E5 C9
26E6
26E6
26E6
                                                       ret
                                                                                                                                      ; CODE XREF: sub_0_26DE+21j
                            loc 0 26E6:
26E6 36 FE
26E8 C9
26E8
                                                       ld
                                                                    (hl), #0xFE; '■
                            ret; End of function sub_0_26DE
26E8
26E9
26E9
26E9
26E9
26E9
26E9
26E9 3A 1A 60
26E9
                                                      SUBROUTINE
                                                                                                                                       ; CODE XREF: sub_0_2602+17^p; sub_0_262F+20^p ...
                            sub_0_26E9:
                                                                   a, (gen_purpose_timer)
#1
Z
7, (h1)__
ld
                                                       and
ret
bit
ld
                                                                         #0xFF
                                                       jp
ld
                                                                    NZ, loc_0_26F8
a, #1
                            loc 0 26F8:
                                                                                                                                      ; CODE XREF: sub 0 26E9+A1j
                                                      1d
                                                                    (hl), a
                            ret; End of function sub_0_26E9
26FA
26FA
26FA
                                                      SUBROUTINE
26FA 26FA 3E 04 26FC F7 7 2702 DF F0 2702 DF 2702 DF 2702 DF 2705 3A 1A 60 270C C2 1A 27 270F E6 03 2711 FE 01 2713 CA 1E 27 2719 DA 129 C9 2719 C9 2719 C9 2719 C9 2719 C9 2719 C9 2719 C9
                            sub_0_26FA:
                                                                                                                                       ; CODE XREF: 0000:19A71p
                                                                    a, #4
0x30
                                                                                                                                      ; return if level bit not set
                                                       rst
                                                                   #0xF0 ; '-'
NC, mario_dies_on_elevator
a, (level)
                                                       ld
                                                       cp
jp
ld
                                                                                                                                      ; make mario die
                                                       dec
ld
jp
and
                                                                    a, (gen_purpose_timer)
NZ, loc_0_271A
                                                       cp
jp
                                                                    Z, loc_0_271E
C, loc_0_2722
                                                       jp
ret
2719 C9
                            loc_0_271A:
                                                                                                                                       ; CODE XREF: sub 0 26FA+121j
271A
271A
                                                       rrca
271B DA 22 27
271E
271E
                                                                    C, loc_0_2722
                            loc_0_271E:
                                                                                                                                       ; CODE XREF: sub_0_26FA+19<sup>†</sup>j
271E CD 45 27
2721 C9
                                                       call
                                                                    sub_0_2745
2722
2722
2722
2722 CD 97 27
2722
                                                                                                                                       ; CODE XREF: sub_0_26FA+1C<sup>†</sup>j; sub_0_26FA+21<sup>†</sup>j
                            loc_0_2722:
                                                       call
                                                                    sub_0_2797
                                                                   sub_0_277bA
b, #6
de, #0x10
hl, #soft_sprite_ram+0x58
ix, #unk_0_6600
2725 CD DA 27
                                                       call
ld
ld
ld
2728
272A
272D
       06 06
11 10 00
21 58 69
                                                                                                                                       ; six elevators
2730 DD 21 00 66
                                                       ld
                                                                                                                                      ; CODE XREF: sub_0_26FA+48|j; store coordinates
                            loc_0_2734:
2734 DD 7E 03
2737 77
                                                      ld
ld
inc
inc
                                                                   a, 3(ix) (h1), a
        77
2C
2C
2C
273A
                                                       inc
273B
273E
273F
       DD 7E 05
77
2C
                                                       ld
ld
                                                                    a, 5(ix) (hl), a
```

inc add

djnz

2740 DD 19 2742 10 F0 ix. de

loc_0_2734

```
2744
2745
2745
                                                     SUBROUTINE
2745
2745
2745
2745
2745
                            sub_0_2745:
                                                                                                                                         ; CODE XREF: sub_0_26FA+24↑p
        3A 98 63
                                                        ld
                                                                     a, (mario_on_elevator)
2748 A7
2749 C8
274A 3A 16 62
274D A7
                                                        and
                                                                                                                                         ; on elevator?
                                                        ret
ld
                                                                     a, (mario_jumping)
                                                                                                                                          ; jumping?
                                                        and
274D A7
274E C0
274F 3A 03 62
2752 FE 2C
2754 DA 66 27
2757 FE 43
2759 DA 67 27
275C FE 6C
275E DA 66 27
2761 FE 83
2763 DA 87 27
2766
                                                        ret
ld
                                                                     NZ
                                                                                                                                          ; yes, return
                                                                          (mario_y_coord)
                                                                     a, (n
#0x20
                                                        cp
jp
cp
jp
                                                                          loc_0_2766
                                                                                                                                         ; not not elevator
                                                                     #0x43
                                                                          loc_0_276F
                                                                                                                                         ; on left elevator
                                                        cp
jp
cp
                                                                      C, loc_0_2766
                                                                                                                                         ; not on elevator
                                                                     C, loc_0_2787
                                                                                                                                          ; on right elevator
                                                                                                                                         ; CODE XREF: sub_0_2745+F<sup>†</sup>j
; sub_0_2745+19<sup>†</sup>j
; mark off elevator
                            loc_0_2766:
2766
2766 AF 2766 AF 2766 AF 2767 32 98 63 276A 3C 276B 32 21 62 276E C9 276F
                                                                     (mario_on_elevator), a
                                                        ld
inc
                                                        ld
                                                                     (unk_0_6221), a
                                                        ret
276F
276F
276F
276F 3A 05 62
2772 FE 71
2774 DA 7F 27
2777 3D
2778 32 05 62
                            loc_0_276F:
                                                                                                                                        ; CODE XREF: sub_0_2745+14 j
                                                        ld
                                                                          (mario_x_coord)
                                                        cp
jp
dec
                                                                                                                                         ; make mario die
; on upwards moving elevator
                                                                     C, mario_dies_on_elevator
                                                                      (mario_x_coord), a
                                                                     (soft_sprite_ram+0x4F), a
        32 4F 69
277B
                                                        ld
277B 32
277E C9
277F
277F
277F
277F AF
277F
                                                                                                                                         ; CODE XREF: sub_0_26FA+8<sup>†</sup>j
                            mario_dies_on_elevator:
                                                                                                                                          ; sub_0_2745+2F<sup>†</sup>j ...
2780 32 00 62
                                                                     (mario_alive_flag), a
(mario_on_elevator),
                                                        1d
2783 32 98 63
2786 C9
2787
2787
                                                        14
                                                        ret
2787
2787
2787
2787
3A 05 62
278A FE E8
278C D2 7F 27
278F 3C
2790 32 05 62
2793 32 4F 69
                            loc_0_2787:
                                                                                                                                         ; CODE XREF: sub_0_2745+1E j
                                                                          (mario_x_coord)
                                                        ср
                                                                      #0xE8 ;
                                                                     NC, mario_dies_on_elevator
                                                        jp
inc
                                                                                                                                         ; on downwards moving elevator
                                                                     (mario_x_coord), a
(soft_sprite_ram+0x4F), a
                                                        ld
2793 32
2796 C9
2796
2796
2797
2797
                            ret; End of function sub_0_2745
                             ; SUBROUTINE
2797
2797
2797
2797
2797 06 06
2799 11 10 00
279C DD 21 00 66
                            sub_0_2797:
                                                                                                                                         ; CODE XREF: sub_0_26FA+28\prime p
; move elevators to the right side
                                                                     b, #6
de, #0x10
ix, #unk_0_6600
                                                        14
                                                        ld
ld
27A0
                            loc_0_27A0:
                                                                                                                                         ; CODE XREF: sub_0_2797+2D-j
27A0 DD CB 00 46
27A4 CA C2 27
27A7 DD CB 0D 5E
27AB CA C7 27
27AE DD 7E 05
                                                                     0, 0(ix)
Z, loc_0_27C2
                                                        jp
bit
                                                                     3, 0xD(ix)
Z, loc_0_27C7
a, 5(ix)
                                                        jp
ld
2781 3D 77 05
2782 DD 77 05
2785 FE 60
2787 C2 C2 27
278A DD 36 03 77
                                                        dec
ld
                                                                     5(ix), a
#0x60;
NZ, loc_0_27C2
                                                        ср
                                                        jp
ld
                                                                     3(ix), #0x77; 'w'
0xD(ix), #4
27BE DD 36 0D 04
27C2
                                                        ld
                                                                                                                                         ; CODE XREF: sub_0_2797+D<sup>†</sup> j ; sub_0_2797+20<sup>†</sup> j ...
                            loc_0_27C2:
27C2 DD 19
                                                        add
djnz
                                                                     ix, de
loc_0_27A0
 27C4 10 DA
 27C6 C9
27C7
                                                        ret
27C7
27C7
27C7 DD 7E 05
                                                                                                                                         ; CODE XREF: sub_0_2797+14<sup>†</sup> j
                            loc_0_27C7:
                                                        ld
                                                                     a, 5(ix)
27C7 DD 7E 05

27C8 DD 77 05

27C8 EF F8

27D0 C2 C2 27

27D3 DD 36 00 00

27D7 C3 C2 27

27D7

27D7
                                                        inc
ld
                                                                     a
5(ix), a
#0xF8; ''
NZ, loc_0_27C2
                                                        ср
                                                        jp
ld
                                                                     0(ix)
                            jp loc_0_27C2
; End of function sub_0_2797
27D7
27DA
27DA
27DA
                                                      SUBROUTINE
27DA
27DA
27DA
27DA
27DD
                                                                                                                                          ; CODE XREF: sub_0_26FA+2B<sup>†</sup>p ; move elevators to the left side
                            sub_0_27DA:
27DA
27DA 21 A7 62
27DD 7E
27DE A7
27DF C2 06 28
27E2 06 06
                                                                     hl, #unk_0_62A7
                                                                     a, (hl)
                                                        ld
                                                        and
                                                                     NZ, loc_0_2806
27E4 DD 21 00 66
                                                                     ix, #unk_0_6600
                                                        ld
                                                                                                                                         ; CODE XREF: sub_0_27DA+17|j
                            loc_0_27E8:
27E8 DD CB 00 46
27EC CA F4 27
27EF DD 19
                                                        bit
                                                                     0, 0(ix)
                                                                     z, loc_0_27F4
ix, de
                                                        jp
add
```

```
10 F5
                                                                                 loc_0_27E8
                                                                 djnz
 27F3 C9
27F3 C9
27F4
27F4
27F4 DD 36 00 01
27F8 DD 36 03 37
27FC DD 36 05 F8
2800 DD 36 0D 08
                                                                                                                                                                ; CODE XREF: sub_0_27DA+12<sup>†</sup>j
                                  loc_0_27F4:
                                                                                0(ix), #1
3(ix), #0x37; '7'
5(ix), #0xF8; '0'
0xD(ix), #8
(h1), #0x34; '4'
                                                                  ld
                                                                  ld
ld
                                                                  ld
2800 DD 36
2804 36 34
2806
2806 35
2807 C9
2807
2807
2808
                                                                  ld
                                                                                                                                                                ; CODE XREF: sub_0_27DA+5<sup>†</sup>j
                                  loc_0_2806:
                                                                 dec
                                                                                 (hl)
                                  ret; End of function sub_0_27DA
 2808
2808
2808
2808
                                                               SUBROUTINE
2808 2808 2808 FD 21 00 62 280C 3A 05 62 280F 4F 2810 21 07 04 2813 CD 6F 28 2816 A7 2817 C8 2818 3D 2819 32 00 62 281C C9 281C C9 281C 281D 281D 281D 281D 281D 281D 281D
                                  sub_0_2808:
                                                                                                                                                                ; CODE XREF: 0000:19B3 p
                                                                 ld
ld
ld
                                                                                 iy, #mario_alive_flag
a, (mario_x_coord)
                                                                                         #0x407
                                                                                 hl.
                                                                  ld
                                                                  call
and
                                                                                 sub_0_286F
                                                                                 a
Z
                                                                  ret
                                                                                                                                                                : die
                                                                 ld
ret
                                                                                  (mario_alive_flag), a
                                  ; End of function sub_0_2808
                                                                SUBROUTINE ...
281D 281D 281D 281D 281D 281D 06 02 281F 11 10 00 2822 FD 21 80 66 2826 2826 FD CB 01 46 282A C2 32 28 282D FD 19 282F 10 F5 2831 C9 2832 2832 2832 2832 FD 4E 05 2835 FD 66 09 2838 FD 66 09 2838 FD 66 09 2838 CD 6F 28
                                  sub_0_281D:
                                                                                                                                                                ; CODE XREF: 0000:19B6 p
                                                                  ld
                                                                                 b, #2
                                                                                 de, #0x10
iy, #unk_0_6680
                                                                  ld
                                                                  ld
                                                                                                                                                                ; hammer character data
                                  loc 0 2826:
                                                                                                                                                                ; CODE XREF: sub_0_281D+12|j
                                                                                0, 1(iy)
NZ, loc_0_2832
iy, de
loc_0_2826
                                                                  bit
                                                                  jp
add
                                                                  djnz
                                  loc_0_2832:
                                                                                                                                                                ; CODE XREF: sub 0 281D+D| j
                                                                 ld
ld
ld
                                                                                 c, 5(iy)
h, 9(iy)
l, 0xA(iy)
2838 FD 6E 0A
283B CD 6F 28
283E A7
283F C8
2840 32 50 63
2846 90
2847 32 54 63
2847 7B
2848 32 53 63
2848 DD 22 51
                                                                 call
and
ret
ld
                                                                                 sub_0_286F
                                                                                 (unk_0_6350)
                                                                 ld
sub
ld
                                                                                  a, (unk_0_63B9)
                                                                                  (unk_0_6354), a
                                                                                 a, e
(unk_0_6353), a
(unk_0_6351), ix
                                                                  ld
284A 7B
284B 32 53 63
284E DD 22 51 63
2852 C9
2852
2853
2853
2853
2853
2853 7D 21 00 62
2857 3A 05 62
285A
285A 285A
285A C6 0C
285C 4F
285A 26 0C
285C 4F
285A 0A 10 60
2860 E6 03
2862 21 08 05
2868 21 08 13
2868
2868
                                                                  ld
                                                                 ld
ret
                                  ; End of function sub_0_281D
                                         SUBROUTINE
                                                                                                                                                                ; CODE XREF: sub_0_1AC3+15D<sup>p</sup>
                                  sub_0_2853:
                                                                                 iy, #mario_alive_flag
                                                                  1d
                                                                                 a, (mario_x_coord)
                                  loc_0_285A:
                                                                                 a, #0xC
                                                                  add
                                                                                 c, a
a, (controller_in)
#3
                                                                  ld
                                                                  ld
                                                                                                                                                                ; left/right only
                                                                  and
                                                                                 hl. #0x508
                                                                  1d
                                                                                 Z, loc_0_286B
hl, #0x1308
                                                                                                                                                                ; not left/right
                                                                                                                                                                ; CODE XREF: sub 0 2853+121i
 286B
                                  loc 0 286B:
 286B CD 88 3E
286E C9
                                                                 call
ret
                                                                                 sub_0_3E88
                                  ; End of function sub_0_2853
 286E
286E
 286F
286F
286F
                                                              SUBROUTINE
 286F
286F
286F 3A 27 62
286F
                                                                                                                                                                ; CODE XREF: sub_0_2808+B\uparrow p; sub_0_281D+1E\uparrow p
                                  sub_0_286F:
                                                                  ld
                                                                                 a, (level_type)
2872 E5
2873 EF
2873
2874 00 00
                                                                 push
rst
                                                                                 hl
0x28
2874 00 00
2876 80 28
2878 B0 28
2878 E0 28
2872 01 29
2875 00 00
2880
2880
2880
2880
2880 E1
2881 06 0A
2883 78
2884 32 B9 63
2887 11 20 00
2884 DD 21 00 67
2885 CD 13 29
2891 06 05
                                                                  .dw 0
                                                                                                                                                                ; Jump table
                                                                  .dw 11_check_hammer_hit
.dw 12_check_hammer_hit
.dw 13_check_hammer_hit
                                                                  .dw
                                                                         14_check_hammer_hit
                                                                                                                                                                ; DATA XREF: sub_0_286F+71o
                                  11 check hammer hit:
                                                                 pop
ld
                                                                                 hl
b, #0xA
                                                                                 a, b
(unk_0_63B9), a
de, #0x20; '
ix, #unk_0_6700
                                                                  ld
                                                                 ld
ld
ld
                                                                                 sub_0_2913
b, #5
                                                                  call
ld
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
2893 78
2894 32 B9 63
2897 1E 20
2899 DD 21 00 64
289D CD 13 29
28A0 06 01
28A2 78
28A3 32 B9 63
28A6 1E 00
28A8 DD 21 A0 66
28AC CD 13 29
28AF C9
28AF
                                                                  ld
                                                                                  (unk_0_63B9), a
                                                                  ld
                                                                 ld
ld
call
                                                                                 e, #0x20;
ix, #unk_0_6400
sub_0_2913
                                                                                                                                                             ; fireball character data
                                                                 ld
ld
ld
ld
                                                                                 b, #1
a, b
(unk_0_63B9), a
                                                                                 e, #<mark>0</mark> ix, #unk_0_66A0
                                                                  ld
                                                                                 sub_0_2913
                                                                 call
ret
                                  ; End of function sub_0_286F
28AF
28B0
28B0
                                                                                                                                                                ; DATA XREF: sub_0_286F+9<sup>†</sup>o; sub_0_3E88+9<sup>†</sup>o
                                 12 check hammer hit:
 28B0
28B0 E1
28B0
28B1 06 05
                                                                                 h1
b, #5
a, b
(unk_0_63B9), a
de, #0x20; ''
ix, #unk_0_6400
                                                                  pop
ld
28B1 06 05
28B3 78
28B4 32 B9 63
28B7 11 20 00
28BB DD 21 00 64
28BE CD 13 29
28C1 06 06
28C3 78
28C4 32 B9 63
28C7 1E 10
28C9 DD 21 AO 65
28CD CD 13 29
28D0 06 01
28D2 78
                                                                  ld
                                                                 ld
ld
ld
                                                                                                                                                               ; fireball character data
                                                                 call
ld
ld
ld
ld
                                                                                 sub_0_2913
                                                                                  (unk_0_63B9), a
                                                                                 (umk_0_6389), a
e, #0x10
ix, #umk_0_65A0
sub_0_2913
b, #1
a, b
(unk_0_63B9), a
                                                                  ld
                                                                 call
ld
28D0 06 01
28D2 78
28D3 32 B9 63
28D6 1E 00
28D8 DD 21 A0 66
28DC CD 13 29
28DF C9
28E0
                                                                 ld
ld
ld
                                                                                 e, #0
ix, #unk_0_66A0
                                                                  ld
                                                                 call
ret
                                                                                 sub_0_2913
28E0 28E0 28E0 28E0 28E0 28E0 28E0 28E1 28E0 28E1 28E3 78 28E4 32 89 63 28E7 11 20 00 28EA DD 21 00 64 28EE CD 13 29 28F1 06 0A 28F3 78 28F4 32 89 63 28F7 1E 10 28F9 DD 21 00 65 28FD CD 13 29 2900 C9 2901 2901 2901
 28E0
                                                                                                                                                                ; DATA XREF: sub_0_286F+B<sup>†</sup>o; sub_0_3E88+B<sup>†</sup>o
                                 13_check_hammer_hit:
                                                                  pop
ld
                                                                                 b, #5
a, b
(unk_0_63B9), a
                                                                  ld
ld
                                                                  ld
ld
                                                                                 de, #0x20 ; ' ' ix, #unk_0_6400
                                                                                                                                                               ; fireball character data
                                                                 call
ld
ld
                                                                                  sub_0_2913
                                                                                 b, #0xA
a, b
(unk_0_63B9), a
                                                                 ld
ld
ld
                                                                                 e, #0x10
ix, #unk_0_6500
                                                                                                                                                                ; check if hammer hits a spring
                                                                 call
ret
                                                                                 sub_0_2913
                                                                                                                                                                ; DATA XREF: sub_0_286F+D<sup>†</sup>o; sub_0_3E88+D<sup>†</sup>o
2901
2901 E1
2901
2902 06 07
                                 14_check_hammer_hit:
                                                                 pop
ld
                                                                                 hl
b, #7
a, b
(unk_0_63B9), a
de, #0x20;
ix, #unk_0_6400
ld
                                                                 ld
ld
                                                                                                                                                                ; fireball character data
                                                                  ld
                                                                  call
                                                                                  sub_0_2913
                                                                 ret
                                                                SUBROUTINE
                                                                                                                                                                 ; CODE XREF: sub_0_286F+1F<sup>†</sup>p
                                 sub_0_2913:
2913 DD E5
2913
2915
2915
                                                                                                                                                                 ; sub 0 286F+2E1p
                                                                 push
                                                                                 ix
                                                                                                                                                                ; CODE XREF: sub_0_2913+3B|j; check if hammer hits something else
                                 loc 0 2915:
0, 0(ix)
Z, loc_0_294C
                                                                 bit
                                                                  jp
ld
                                                                                 a, c
5(ix)
                                                                  sub
                                                                 jp
neg
                                                                                 NC, loc_0_2925
2925
2925
2925 3C
2926 95
2927 DA 30 29
292A DD 96 0A
292D D2 4C 29
2930
2930 ED 7E 03
                                  loc 0 2925:
                                                                                                                                                               ; CODE XREF: sub 0 2913+D1i
                                                                  sub
                                                                                 C, loc_0_2930

OxA(ix)

NC, loc_0_294C
                                                                  jр
                                                                  sub
                                  loc_0_2930:
                                                                                                                                                                ; CODE XREF: sub_0_2913+14 j
2930 FD 7E 03
2933 DD 96 03
2936 D2 3B 29
2939 ED 44
                                                                                 a, 3(iy)
3(ix)
NC, loc_0_293B
                                                                  1d
                                                                  sub
                                                                  jр
                                                                  neg
293B
293B
293B
                                  loc_0_293B:
                                                                                                                                                                ; CODE XREF: sub_0_2913+23 j
                                                                  sub
293B 94
293C DA 45 29
293F DD 96 09
2942 D2 4C 29
2945
2945
2945 3E 01
2947 DD E1
2949 33
                                                                                      loc_0_2945
                                                                 jp
sub
jp
                                                                                 C, loc_0_2945
9(ix)
NC, loc_0_294C
                                                                                                                                                                ; CODE XREF: sub 0 2913+291i
                                  loc_0_2945:
                                                                                 a, #1
ix
                                                                  ld
                                                                  pop
          33
33
                                                                  inc
                                                                                 sp
sp
 294A
294B C9
294C
294C
```

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

294C 294C DD 19 294C

294E 10 C5

2950 AF

loc_0_294C:

ix, de loc_0_2915

add

djnz

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
2951 DD E1
                                                           pop
                                                                         ix
                                                           ret
                               ; End of function sub_0_2913
                                                         SUBROUTINE
                               sub_0_2954:
                                                                                                                                                ; CODE XREF: sub_0_1AC3+171\p
                                                           ld
                                                                         a, #0xB
0x30
                                                           rst
call
                                                                                                                                                ; return if level bit not set
                                                                         sub_0_2974
(unk_0_6218), a
                                                           rrca
rrca
ld
ld
                                                                          (digital_snd_tmr_barrel_jump_priz), a
                                                                         a, b
a
Z
#1
                                                           and
ret
                                                           ср
                                                                         Z, loc_0_296F
1(ix), #1
                                                           jp
ld
296F
296F DD 36 11 01
2973 C9
2973
2974
2974
                               loc_0_296F:
                                                                                                                                                ; CODE XREF: sub_0_2954+13 j
                                                                         0x11(ix), #1
                                                           ld
                               ret; End of function sub_0_2954
                                                        SUBROUTINE
2974
2974
2974
2974
2974 FD 21 00 62
2978 3A 05 62
2978 4F
297C 21 08 04
297F 06 02
2981 11 10 00
2984 DD 21 80 66
2988 CD 13 29
298B C9
298B
298B
                               sub_0_2974:
                                                                                                                                                ; CODE XREF: sub_0_2954+3\p
                                                                         iy, #mario_alive_flag
                                                           ld
                                                           ld
ld
ld
                                                                               (mario_x_coord)
                                                                         c, a
h1, #0x408
b, #2
de, #0x10
ix, #unk_0_6680
                                                           ld
                                                           ld
ld
                                                                                                                                                ; hammer character data
                                                           call
                                                                         sub 0 2913
                                                           ret
                               ; End of function sub_0_2974
298B
298C
298C
298C
298C
298C
298C
298C 2A C8 63
298F 7D
2990 C6 0E
                                                        SUBROUTINE
                               sub_0_298C:
                                                                                                                                                ; CODE XREF: sub 0 3202+3C-p
                                                           ld
ld
add
                                                                         hl, (unk_0_63C8)
a, l
a, #0xE
l, a
2990 C6 0E
2992 6F
2993 56
2994 2C
2995 7E
2996 C6 0C
2998 5F
2999 EB
2999 CD F0 2F
2990 TE
2990 DA AC 29
2903 E6 0F
2904 DA AC 29
2905 FE 08
2907 D2 AC 29
2908 C9
                                                                        ,, UXE
1, a
d, (h1)
1
                                                           ld
ld
inc
ld
                                                                               (hl)
                                                                         a,
                                                           add
ld
ex
                                                                         a, #0xC
e, a
de, hl
                                                           call
ld
                                                                         get_tilemap_addr_from_coords
                                                                         a, (hl)
#0xB0; '\"
C, loc_0_29AC
#0xF
                                                           cp
jp
and
                                                           cp
jp
                                                                         NC, loc_0_29AC
                                                           xor
29AA AF
29AB C9
29AC
29AC
29AC
29AC 3E 01
29AC
29AE C9
                                                           ret
                               loc_0_29AC:
                                                                                                                                                 ; CODE XREF: sub_0_298C+14\uparrow j; sub_0_298C+1B\uparrow j
                                                           ld
                                                                         a, #1
                                                           ret
                               ; End of function sub_0_298C
 29AE
 29AE
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
29BC D 22 2A
29C0 A7
29C1 CA 20 2A
29C4 3E 06
29C6 90
29C7
29C7 CA D0 29
29CA DD 19
29CC 3D
29CD C3 C7 29
29DD C3 C7 29
29DD C3 C7 29
                               sub_0_29AF:
                                                                                                                                                ; CODE XREF: sub_0_2B1C+7|p
                                                                         a, #4
0x30
                                                           ld
                                                           rst
ld
ld
                                                                                                                                                ; return if level bit not set
                                                                         iy, #mario_alive_flag
a, (mario_x_coord)
                                                           ld
ld
                                                                         c, a
hl, #0x408
                                                           call
and
jp
ld
                                                                          sub_0_2A22
                                                                         a
Z, loc_0_2A20
                                                                         a,
b
                                                                              #6
                                                           sub
                                                                                                                                                ; CODE XREF: sub_0_29AF+1E|j
                               loc 0 29C7:
                                                           jp
add
dec
                                                                         Z, loc_0_29D0
ix, de
                                                                         a
loc_0_29C7
                                                           jр
 29D0
29D0
29D0
                               loc_0_29D0:
                                                                                                                                                ; CODE XREF: sub_0_29AF+18 j
29D0 DD 7E 05
29D3 DG 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
29E5 3E 01
                                                                         a, 5(ix)
#4
d, a
                                                           ld
```

sub ld

ld

add cp

jp ld

sub ld ld

1d

29E7 47 29E8 32 98 63

a, (mario_y_be:
a, #5
d
NC, loc_0_29EE

(mario_x_coord), a

(mario_on_elevator), a

d

(mario_y_before_jump)

; check if on or below elevator

; flag on elevator

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
 29EB 33
 29EC
                                                           inc
                                                                         sp
29ED C9
29EE
29EE
                                                                                                                                                 ; CODE XREF: sub_0_29AF+2D|j
                              loc_0_29EE:
 29EE
29EE 29EE 3A OC 62 29F1 D6 OE 29F3 BA 29F4 D2 1B 2A 29F7 3A 10 62 29FB A7 29FB A OS 62 24 2A01 F6 O7 2A03 D6 O4 2A05 C3 OE 2A 2A08
                                                                        a, (u
#0xE
                                                           14
                                                                               (mario_y_before_jump)
                                                                                                                                                 ; collide with side of elevator
                                                           sub
                                                           ср
                                                                         NC, loc_0_2A1B
a, (unk_0_6210)
                                                           jp
ld
and
ld
                                                                         a, (mario_y_coord)
                                                           jp
or
sub
                                                                         Z, loc_0_2A08
#7
                                                                         loc 0 2A0E
                                                           jр
2A05 C3 0E
2A08
2A08
2A08
2A08 D6 08
2A0A F6 07
2A0C C6 04
2A0E
                              loc_0_2A08:
                                                                                                                                                ; CODE XREF: sub_0_29AF+4F<sup>†</sup>j
                                                                         #8
#7
a, #4
                                                           sub
                                                           add
; CODE XREF: sub 0 29AF+561i
                              loc_0_2A0E:
                                                           ld
ld
                                                                         (mario_y_coord), a
(soft_sprite_ram+0x4C), a
                                                           ld
                                                                         a, #1
b, #0
                                                           ld
                                                                         sp
                                                                         sp
                                                           ret
                              loc_0_2A1B:
                                                                                                                                                 ; CODE XREF: sub_0_29AF+45 j
                                                           xor
                                                           1d
                                                                         (mario_alive_flag), a
                              loc_0_2A20:
                                                                                                                                                ; CODE XREF: sub_0_29AF+12<sup>†</sup>j
                                                           ld
                                                           ret
                               ; End of function sub_0_29AF
                                                       SUBROUTINE 
                               sub_0_2A22:
                                                                                                                                                 ; CODE XREF: sub_0_29AF+E1p
                                                           ld
                                                                         b, #6
                                                           ld
ld
call
                                                                         de, #0x10
ix, #unk_0_6600
sub_0_2913
2A2E C9
2A2E
2A2E
2A2E
2A2F
                               ret; End of function sub_0_2A22
2A2F
2A2F
2A2F
2A2F
                                       SUBROUTINE
                                                                                                                                                 ; CODE XREF: sub_0_1F72+E5<sup>p</sup>; sub_0_1F72+188<sup>p</sup>
2A2F
2A2F DD 7E 03
2A2F
2A32 67
2A33 DD 7E 05
2A36 C6 04
2A38 6F
2A39 E5
2A3A CD F0 2F
2A3D D1
2A3E 7E
2A3F FE B0
2A41 DA 7B 2A
                              sub 0 2A2F:
                                                                         a, 3(ix)
h, a
a, 5(ix)
                                                           ld
ld
                                                           ld
                                                                         a, 5(1
a, #4
1, a
hl
                                                           add
                                                           ld
                                                           push
call
pop
ld
                                                                         get_tilemap_addr_from_coords de
                                                                         a, (hl)
#0xB0;
                                                           ср
2A41 DA 7B 2A
2A44 E6 OF
2A46 FE 08
2A48 D2 7B 2A
                                                           jp
and
cp
                                                                         C, loc_0_2A7B
#0xF
                                                                         #8
NC, loc_0_2A7B
                                                           jp
ld
cp
jp
cp
jp
cp
2A48 D2 7B 2A
2A4B 7E
2A4C FE CO
2A4E CA 7B 2A
2A51 DA 69 2A
2A54 FE DO
2A56 DA 6E 2A
2A59 FE EO
                                                                         a, (h1)
#0xC0; L
Z, loc_0_2A7B
C, loc_0_2A69
                                                                          #0xD0 ;
                                                                               loc_0_2A6E
                                                                         #0xE0 ;
2A59 FE E0
2A5B DA 63 2A
2A5E FE F0
2A60 DA 6E 2A
2A63
2A63
2A63 E6 0F
2A65 3D
2A66 C3 72 2A
                                                                         C, loc_0_2A63
#0xF0; '-'
                                                                         C, loc_0_2A6E
                                                                                                                                                ; CODE XREF: sub_0_2A2F+2C<sup>†</sup> j
                              loc 0 2A63:
                                                           and
dec
                                                                          #0xF
                                                                         loc_0_2A72
                                                           jр
2A69
2A69
2A69
2A69
                               loc_0_2A69:
                                                                                                                                                 ; CODE XREF: sub_0_2A2F+22<sup>†</sup>j
         3E FF
                                                                          a. #0xFF
                                                           ld
2A6B C3 72 2A
2A6E
2A6E
                                                           jp
                                                                         loc_0_2A72
2A6E 2A6E 6 0F 2A6E 6 0F 2A7E 7 2A72 2A72 2A72 2A72 2A73 7B 2A76 81 2A77 BB 2A78 2A78 2A78 2A78 AF
                                                                                                                                                 ; CODE XREF: sub_0_2A2F+27<sup>†</sup>j; sub_0_2A2F+31<sup>†</sup>j
                              loc 0 2A6E:
                                                           sub
                                                                                                                                                 ; CODE XREF: sub_0_2A2F+37<sup>†</sup>j
; sub_0_2A2F+3C<sup>†</sup>j
                              loc_0_2A72:
```

c, a a, e #0xF8 ; '°'

e C, loc_0_2A7D

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

ld ld and add

ср

xor

a

loc_0_2A7B:

2A7B AF 2A7B

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
2A7C C9
2A7D
2A7D
2A7D
2A7D
2A7D D6 04
2A7F DD 77 05
2A82 3E 01
2A84 C9
2A84
                                                                                                           ret
                                                       loc_0_2A7D:
                                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_2A2F+49 j
                                                                                                                                     #4
5(ix), a
                                                                                                           ld
ld
                                                                                                                                     a, #1
                                                                                                           ret
                                                       ; End of function sub_0_2A2F
2A84
2A85
2A85
2A85
                                                                                                          SUBROUTINE
2A85
2A85
2A85 3A 15 62
2A88 A7
                                                       sub_0_2A85:
                                                                                                                                                                                                                                                                      ; CODE XREF: 0000:19A11p
                                                                                                           ld
                                                                                                                                    a, (mario_climbing)
2A88 A7
2A89 C0
2A8A 3A 16 62
2A8D A7
2A8E C0
2A8F 3A 98 63
2A92 FE 01
2A94 C8
2A95 3A 03 62
2A98 D6 03
2A9A 67
2A9B C6 0C
2A9A 6F
2AAA 6F
2AAA 7E B0
2AAA 7E B0
2AAA 7E B0
2AAA 6B CAAA 6B CA
                                                                                                                                                                                                                                                                       ; climbing?
                                                                                                           and
                                                                                                           ret
ld
                                                                                                                                     NZ
                                                                                                                                                                                                                                                                       ; yes, return
                                                                                                                                     a, (mario_jumping)
                                                                                                           and
                                                                                                                                                                                                                                                                       ; jumping?
                                                                                                           ret
                                                                                                                                     NZ
                                                                                                                                                                                                                                                                       ; yes, return
                                                                                                           ld
cp
                                                                                                                                               (mario_on_elevator)
                                                                                                                                                                                                                                                                       ; on elevator?
                                                                                                           ret
ld
                                                                                                                                                                                                                                                                       ; yes, return
                                                                                                                                             (mario_y_coord)
                                                                                                           sub
                                                                                                                                    a, (mar:
a, #0xC
1, a
h1
                                                                                                                                              (mario_x_coord)
                                                                                                           ld
                                                                                                           add
                                                                                                           ld
                                                                                                                                    ...
get_tilemap_addr_from_coords
de
                                                                                                           push
call
                                                                                                           pop
ld
                                                                                                                                      a, (hl)
#0xB0;
                                                                                                           ср
                                                                                                                                     C, loc_0_2AB4
#0xF
                                                                                                           jp
and
                                                                                                           ср
                                                                                                                                     NC, loc_0_2AB4
2AB0 D2 B4 2A
2AB3 C9
2AB4
2AB4
2AB4
2AB4
2AB5 E6 07
2AB7 CA CD 2A
2ABA 01 20 00
2ABD ED 42
2ABF 7E
2AC0 FE B0
2AC2 DA CD 2A
2AC5 E6 0F
2AC7 FE 08
2AC9 D2 CD 2A
                                                                                                           jр
                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_2A85+24<sup>†</sup> j ; sub_0_2A85+2B<sup>†</sup> j
                                                       loc 0 2AB4:
                                                                                                                                    a, d
#7
                                                                                                           ld
and
                                                                                                           jp
ld
sbo
                                                                                                                                     Z, loc_0_2ACD
                                                                                                                                    bc, #0x20;
hl, bc
a, (hl)
                                                                                                                                     a, (hl)
#0xB0;
                                                                                                           cp
jp
and
                                                                                                                                              loc_0_2ACD
                                                                                                           ср
2AC7 PE 00
2AC9 D2 CD 2A
2ACC C9
2ACD
2ACD
                                                                                                                                    NC, loc_0_2ACD
                                                                                                           jp
ret
2ACD
2ACD 3E 01
2ACD
                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_2A85+32<sup>†</sup>j
; sub_0_2A85+3D<sup>†</sup>j ...
                                                       loc_0_2ACD:
                                                                                                           ld
ld
                32 21 62
                                                                                                                                     (unk_0_6221), a
2AD2 C9
                                                                                                           ret
                                                       ; End of function sub_0_2A85
                                                                                                       SUBROUTINE
                                                       sub_0_2AD3:
                                                                                                                                                                                                                                                                      ; CODE XREF: sub 0 25F2+C1p
                                                                                                                                            (mario_y_coord)
                                                                                                           ld
ld
                                                                                                                                               (mario_x_coord)
                                                                                                           cp
jp
cp
jp
cp
                                                                                                                                      #0×50 ;
                                                                                                                                              loc_0_2AEA
                                                                                                                                     #0x78 ; 'x'
Z, loc_0_2AF6
2AE1 CA FO 2A
2AE4 FE C8
2AE6 CA FO 2A
2AE9 C9
2AEA
                                                                                                                                     Z, loc_0_2AF0
                                                                                                           ret
2AEA
2AEA
2AEA
                                                        loc_0_2AEA:
                                                                                                                                                                                                                                                                       ; CODE XREF: sub_0_2AD3+9<sup>†</sup>j
2AEA 3A A3 63
2AED C3 02 2B
                                                                                                                                     a, (unk_0_63A3)
loc_0_2B02
                                                                                                           ld
                                                                                                           jp
2AED C3 02 2B

2AF0

2AF0

2AF0

2AF0 3A A6 63

2AF3 C3 02 2B

2AF6

2AF6
                                                       loc_0_2AF0:
                                                                                                                                                                                                                                                                       ; CODE XREF: sub 0 2AD3+13<sup>†</sup> <sup>†</sup>
                                                                                                                                             (unk_0_63A6)
                                                                                                           ld
                                                                                                           jp
                                                                                                                                      loc_0_2B02
2AF6
2AF6
78
2AF7 FE 80
2AF9 3A A5 63
2AFC D2 02 2B
2AFF 3A A4 63
2B02
2D02
                                                       loc 0 2AF6:
                                                                                                                                                                                                                                                                      ; CODE XREF: sub 0 2AD3+E1j
                                                                                                                                    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[†]j; sub_0_2AD3+20[†]j ...

; CODE XREF: sub_0_2AD3+3D1j

2B0F 1D 2B10 CA 18 2B 2B13 15 2B14 CA 1A 2B 2B17 C9

2B18 2B18 2B18

2B19 C9

loc 0 2B02:

loc_0_2B18:

a, b

(h1)

(mario_y_coord), a (soft_sprite_ram+0x4C), a
sub_0_241F
hl, #mario_y_coord

e Z, loc_0_2B18

d Z, loc_0_2B1A

ld ld

call dec

jp dec

jр

```
2B1A
2B1A
2B1A
2B1A 34
2B1B C9
                           loc_0_2B1A:
                                                                                                                                    ; CODE XREF: sub_0_2AD3+41 j
                                                      inc
ret
                                                                   (hl)
                            ; End of function sub_0_2AD3
2B1B
2B1B
2B1C
2B1C
2B1C
2B1C
2B1C
2B1C
2B1C DD 21 00 62
2B20 CD 29 2B
2B23 CD AF 29
2B26 AF
2B27 47
2B28 C9
                                  SUBROUTINE
                                                                                                                                     ; CODE XREF: sub_0_1AC3+142\p
                           sub_0_2B1C:
                                                      ld
                                                                   ix, #mario_alive_flag
                                                      call
                                                                   sub 0 2B29
                                                                   sub_0_29AF
                                                      xor
                                                                   a
b, a
                                                      ld
2B28 C9
2B28
2B28
                            ret; End of function sub_0_2B1C
SUBROUTINE
                                                                                                                                    ; CODE XREF: sub_0_2B1C+41p
                            sub_0_2B29:
                                                      ld
dec
                                                                   a, (level_type)
                                                                   NZ, loc 0 2B53
                                                      jp
ld
                                                                        (mario_y_coord)
                                                      ld
ld
ld
add
                                                                        (mario_x_coord)
                                                      ld
call
and
                                                                   sub_0_2B9B
                                                                   a
Z, loc_0_2B51
                                                      jp
ld
sub
                                                      ср
                                                      jp
ld
sub
                                                                   NC. loc 0 2B74
                                                      1d
                                                                   (mario x coord), a
                                                      ld
                                                      ld
                           loc_0_2B51:
                                                                                                                                    ; CODE XREF: sub 0 2B29+15 † j
                                                                   h1
                                                                   a, (mario_y_coord)
#3
                            loc_0_2B53:
                                                                                                                                    ; CODE XREF: sub_0_2B29+4<sup>†</sup>j
                                                      ld
                                                                  ., a
a, (mario_x_coord)
a, #7
1, a
                                                      sub
                                                      ld
ld
add
ld
                                                      call
cp
jp
ld
                                                                   sub_0_2B9B
#2
Z, loc_0_2B7A
                                                                   a, d
a, #7
2B68 C6 07
2B68 66
2B6C CD 9B 2B
2B6F A7
2B70 C8
2B71 C3 7A 2B
2B74
2B74
2B74
2B74
2B74
2B76 06 00
2B76 06 00
2B78 E1
2B79 C9
2B7A
                                                      add
                                                      ld
ld
                                                                   sub_0_2B9B
                                                      call
                                                      ret
                                                                   loc_0_2B7A
                                                      jр
                            loc_0_2B74:
                                                                                                                                     ; CODE XREF: sub_0_2B29+1C<sup>†</sup> j
                                                      ld
                                                                   a, #0
b, #0
                                                      1d
2B7A

2B7A

2B7A

2B7A 3A 10 62

2B7D A7

2B7E 3A 03 62

2B81 CA 8B 22

2B84 F6 07

2B86 D6 04

2B88 C3 91 2B

2B8B
                            loc_0_2B7A:
                                                                                                                                     ; CODE XREF: sub_0_2B29+3B<sup>†</sup>j; sub_0_2B29+48<sup>†</sup>j
                                                      ld
                                                                   a. (unk 0 6210)
                                                      and
ld
jp
or
                                                                        (mario_y_coord)
loc_0_2B8B
                                                      sub
jp
                                                                   loc_0_2B91
2B8B
2B8B
2B8B
2B8B D6 08
2B8D F6 07
                           loc_0_2B8B:
                                                                                                                                     ; CODE XREF: sub_0_2B29+58 j
                                                      sub
                                                      or
2B8F C6 04
2B91
2B91
2B91 32 03
                                                      add
                                                                   a, #4
                            loc_0_2B91:
                                                                                                                                     ; CODE XREF: sub_0_2B29+5F<sup>†</sup>j
2B91 32 03 62
2B94 32 4C 69
2B97 3E 01
2B99 E1
2B98 C0
                                                      ld
                                                                   (mario_y_coord), a
(soft_sprite_ram+0x4C), a
                                                      ld
ld
                                                                   a,
hl
                                                      pop
2B9A C9
                                                      ret
2B9A
2B9A
2B9B
                            ; End of function sub_0_2B29
2B9B
2B9B
2B9B
                                                    SUBROUTINE
                                                                                                                                    ; CODE XREF: sub_0_2B29+11<sup>p</sup>; sub_0_2B29+36<sup>p</sup>...
2B9B
                           sub 0 2B9B:
2B9B E5
2B9B E5

2B9C CD F0 2F

2B9F D1

2BA0 7E

2BA1 FE B0

2BA3 DA D9 2B
                                                      push
call
                                                                   hl get_tilemap_addr_from_coords de a, (hl) #0xB0; 'E' C, loc_0_2BD9
                                                     pop
ld
cp
                                                      jp
and
                                                                   C, 1
#0xF
2BA6 E6 OF
2BA8 FE 08
```

```
2BAA D2 D9 2B
                                                                               NC, loc_0_2BD9
                                                                jp
ld
 2BAD 7E
2BAE FE C0
2BBO CA D9 2B
2BB3 DA DC 2B
                                                                               a, (h1)
#0xC0; L
Z, loc_0_2BD9
C, loc_0_2BDC
                                                                cp
jp
 2BB3 DA DC 2B
2BB6 FE D0
2BB8 DA CB 2B
2BBB FE E0
2BBD DA C5 2B
2BC0 FE F0
2BC2 DA CB 2B
2BC5
2BC5
2BC5
2BC7 3D
2BC8 C3 CF 2B
2BC8 DS CF 2B
2BC8 C3 CF 2B
                                                                jр
                                                                cp
jp
cp
                                                                                #0xD0;
                                                                                                'ð'
                                                                                    loc_0_2BCB
                                                                                #0xE0 ; 'Ó'
C, loc_0_2BC5
                                                                cp
jp
                                                                               #0xF0
                                                                               C, loc_0_2BCB
                                  loc_0_2BC5:
                                                                                                                                                           ; CODE XREF: sub_0_2B9B+22<sup>†</sup>j
                                                                and
dec
                                                                               #0xF
                                                                               loc_0_2BCF
                                                                jр
 2BCB
 2BCB
2BCB
2BCB E6 OF
                                                                                                                                                            ; CODE XREF: sub_0_2B9B+1D<sup>†</sup> j ; sub_0_2B9B+27<sup>†</sup> j
                                  loc_0_2BCB:
 2BCB
2BCD D6 09
2BCF
2BCF
                                                                and
                                                                                #0xF
                                                                sub
                                                                                                                                                           ; CODE XREF: sub_0_2B9B+2D1j
                                 loc 0 2BCF:
 2BCF 4F
                                                                ld
                                                                               c, a
 2BD0 7B
2BD1 E6 F8
                                                                ld
and
                                                                               a, e
#0xF8 ; '°'
2BD3 81
2BD4 4F
2BD5 BB
2BD6 DA E1 2B
2BD9
2BD9
                                                                add
                                                                               a, c
                                                                ld
                                                                               e
C, loc_0_2BE1
                                                                ср
                                                                jр
                                                                                                                                                            ; CODE XREF: sub_0_2B9B+8<sup>†</sup>j; sub_0_2B9B+F<sup>†</sup>j ...
 2BD9
2BD9 AF
2BD9
2BDA 47
                                 loc_0_2BD9:
                                                                xor
                                                                               b. a
                                                                1d
 2BDR 47
2BDB C9
2BDC
2BDC
2BDC
                                                                                                                                                            ; CODE XREF: sub 0 2B9B+181i
                                 loc 0 2BDC:
 2BDC 7B
2BDC 7B
2BDD E6 F8
2BDF 3D
2BE0 4F
2BE1
2BE1
                                                                ld
and
                                                                               a, e
#0xF8 ; '°'
                                                                dec
                                                                               a
c, a
                                                                ld
                                  loc_0_2BE1:
                                                                                                                                                            ; CODE XREF: sub_0_2B9B+3B<sup>†</sup>j
 2BE1
2BE1 3A 0C 62
2BE4 DD 96 05
2BE7 83
2BE8 B9
                                                                ld
                                                                                     (mario_y_before_jump)
                                                                               a, (m
5(ix)
                                                                sub
                                                                add
                                                                               a, e
                                                                ср
                                                                               C
Z, loc_0_2BEF
 2BE9 CA EF 2B
                                                                jp
 2BEC D2 F8 2B
2BEF
2BEF
                                                                jp
                                                                               NC, loc_0_2BF8
                                  loc_0_2BEF:
                                                                                                                                                            ; CODE XREF: sub_0_2B9B+4E<sup>†</sup>j
 2BEF 79
                                                                1d
 2BF0 D6 07
2BF2 32 05 62
2BF5 C3 FD 2B
                                                                sub
ld
                                                                               (mario_x_coord), a loc_0_2BFD
                                                                jр
 2BF5 C3 FD
2BF8
2BF8
2BF8
2BF8 3E 02
2BFA 06 00
2BFC C9
2BFD
                                  loc_0_2BF8:
                                                                                                                                                            ; CODE XREF: sub_0_2B9B+51<sup>†</sup>j
                                                                               a, #2
b, #0
                                                                ld
                                                                ld
 2BFD
 2BFD
2BFD 3E
2BFF 47
2C00 E1
2C01 E1
2C02 C9
2C02
                                 loc_0_2BFD:
                                                                                                                                                            ; CODE XREF: sub_0_2B9B+5A j
          3E 01
                                                                ld
ld
                                                                               a, #1
b, a
hl
                                                                qoq
                                                                pop
                                                                               hl
                                 ; End of function sub_0_2B9B
 2C02
2C03
2C03
2C03
                                                            SUBROUTINE
 2003
2003
2003
2003 3E 01
2005 F7
2006 D7
2007 3A 93 63
2000 D9
                                  sub_0_2C03:
                                                                                                                                                            ; CODE XREF: 0000:1989 p
                                                                               a, #1
0x30
                                                                ld
                                                                                                                                                           ; return if level bit not set
; return if mario not alive
                                                                rst
                                                                rst
ld
                                                                               0x10
                                                                               a, (barrel_deployment)
                                                                rrca
 2C0B D8
                                                                ret
 2C0B D8

2C0C 3A B1 62

2C0F A7

2C10 C8

2C11 4F

2C12 3A B0 62

2C15 D6 02

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

```
; CODE XREF: sub 0 2C03+361i
 2C41
                           loc 0 2C41:
 2C41 CD 57 00
2C44 E6 0F
2C46 C2 86 2C
                                                    call
and
jp
                                                                 rand
                                                                 #0xF
NZ, loc_0_2C86
 2C49
2C49
2C49
2C49 3E 01
2C4B
                           loc_0_2C49:
                                                                                                                                ; CODE XREF: sub_0_2C03+7B|j
                                                     ld
2C4B
2C4B 32 82 63
2C4E 3C
2C4F
                                                                                                                                ; CODE XREF: sub_0_2C03+80 | j
                           loc 0 2C4B:
                                                                 (unk_0_6382), a
                                                    inc
loc_0_2C4F:
                                                                                                                                ; CODE XREF: sub_0_2C03+89 | j
                                                    ld
ld
                                                                 (unk_0_638F), a
                                                                  a, #1 (unk_0_6392);
                                                     ld
                                                    ld
cp
                                                                 a, (unk_0_62B2)
                                                     ret
                                                     sub
                                                    ld
ld
ld
                                                                  (unk_0_62B2), a
                                                                 de, #0x20; ' ' h1, #unk_0_6400
                                                                                                                                ; fireball character data
                                                                 b. #5
                                                     ld
                                                                                                                                ; CODE XREF: sub_0_2C03+6C|j
                           loc_0_2C69:
                                                                 a, (h1)
a
Z, loc_0_2C72
h1, de
loc_0_2C69
                                                     ld
 2C6A A7
                                                     and
 2C6A A7
2C6B CA 72 2C
2C6E 19
2C6F 10 F8
                                                    jp
add
djnz
2C6F 10 F8

2C71 C9

2C72

2C72

2C72

2C72 3A 82 63

2C75 F6 80

2C77 32 82 63
                                                                                                                                ; CODE XREF: sub_0_2C03+68 j
                           loc 0 2C72:
                                                     ld
                                                                     (unk_0_6382)
                                                    or
ld
                                                                 (unk_0_6382), a
                                                     ret
2C7A C9

2C7B

2C7B

2C7B

2C7B C6 02

2C7D B9

2C7E CA 49 2C

2C81 3E 02

2C83 C3 4B 2C
                           loc 0 2C7B:
                                                                                                                                ; CODE XREF: sub_0_2C03+15 j
                                                     add
                                                                 a, #2
                                                     ср
                                                                 Z, loc_0_2C49
                                                     jp
1d
                                                                 a, #2
loc_0_2C4B
                                                     jр
 2C86
2C86
                                                                                                                                ; CODE XREF: sub_0_2C03+1D<sup>†</sup>j; sub_0_2C03+43<sup>†</sup>j
                           loc_0_2C86:
 2C86
2C86 AF
2C86
2C87 32
32 82 63
2C8A 3E 03
2C8C C3 4F 2C
2C8C
2C8C
2C8C
                                                                  (unk_0_6382), a
                                                     ld
                           ld a, #3
jp loc_0_2C4F
; End of function sub_0_2C03
2C8F
2C8F
2C8F
2C8F
                                                    SUBROUTINE
2C8F
2C8F 3E 01
2C91 F7
2C92 D7
2C93 3A 93 63
2C96 0F
2C97 DA 15 2D
2C9A 3A 92 63
2C9D 0F
2C9E D0
2C9F DD 21 00 67
2C3A 11 20 00
2CA6 06 0A
2CA8
2CA8
2CA8
2CA8
2CA8 DD 7E 00
 2C8F
                           sub_0_2C8F:
                                                                                                                                ; CODE XREF: 0000:1986 p
                                                    ld
rst
                                                                                                                                ; return if level bit not set
; return if mario not alive
                                                     rst
                                                                 0x10
                                                     ld
                                                                 a, (barrel_deployment)
                                                     rrca
                                                                 C, loc_0_2D15
                                                     jp
ld
                                                                 a, (unk_0_6392)
                                                     rrca
ret
ld
                                                                 ix, #unk_0_6700
                                                                 de, #0x20;
b, #0xA
                                                     1d
                           loc 0 2CA8:
                                                                                                                                ; CODE XREF: sub 0 2C8F+26-i
2CA8 DD 7E 00
2CAB 0F
2CAC DA B3 2C
2CAF 0F
                                                    1d
                                                                 a, 0(ix)
                                                     rrca
                                                                 C, loc_0_2CB3
                                                     jр
                                                     rrca
2CB0 D2 B8 2C
2CB3
2CB3
                                                                 NC, loc_0_2CB8
                           loc_0_2CB3:
                                                                                                                                ; CODE XREF: sub_0_2C8F+1D<sup>†</sup> j
 2CB3 DD 19
                                                     add
                                                                 ix, de
 2CB5 DD 19
2CB5 10 F1
2CB7 C9
2CB8
2CB8
                                                    djnz
ret
                                                                 loc_0_2CA8
loc_0_2CB8:
                                                                                                                                ; CODE XREF: sub_0_2C8F+21 j
                                                    ld
ld
                                                                  (unk_0_62AA), ix
                                                                 0(ix), #2
d, #0
a, #0xA
b
                                                    ld
ld
                                                     sub
                                                     add
                                                                 a. a
                                                    add
ld
ld
                                                                 e, a
hl, #soft_sprite_ram+0x80
                                                    add
ld
ld
ld
                                                                 hl. de
                                                                 (unk_0_62AC), hl
a, #1
(barrel_deployment), a
                                                     ld
                                                                                                                                ; update_bonus_timer
                                                     call
ld
                                                                 queue_fg_vector_fn
hl, #unk_0_62B1
(hl)
                                                     dec
                                                     jp
ld
ld
                                                                 NZ, loc_0_2CE6
 2CE1 3E 01
2CE3 32 86 63
                                                                 a, #1
(unk_0_6386), a
 2CE6
 2CE6
2CE6 7E
2CE7 FE 04
                           loc_0_2CE6:
                                                                                                                                ; CODE XREF: sub_0_2C8F+4F1j
                                                                 a, (hl)
#4
                                                     ld
                                                     ср
                                                                 #4
NC, loc_0_2CF6
hl, #soft_sprite_ram+0xA8
2CE9 D2 F6 2C
2CEC 21 A8 69
```

```
2CEF 87
2CEF 87
2CF0 87
2CF1 5F
2CF2 16 00
2CF4 19
2CF5 72
2CF6
2CF6 DD 36 07 15
2CFA DD 36 08 0B
2CFE DD 36 15 00
2D02 3A 82 63
2D05 07
2D06 D2 15 2D
                                                                                                                                        a, a
e, a
d, #0
hl, de
                                                                                                               add
                                                                                                              ld
ld
add
                                                                                                                                         (hl), d
                                                                                                               1d
                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2C8F+5A↑j; sideways barrel sprite tile
                                                        loc_0_2CF6:
                                                                                                                                          7(ix), #0x15
                                                                                                               ld
                                                                                                              ld
ld
ld
                                                                                                                                        8(ix), #0xB
0x15(ix), #0
a, (unk_0_6382)
                                                                                                               rlca
2D05 07
2D06 D2 15 2D
2D09 DD 36 07 19
2D0D DD 36 08 0C
2D11 DD 36 15 01
                                                                                                               jp
ld
ld
                                                                                                                                        NC, loc_0_2D15
7(ix), #0x19
8(ix), #0xC
0x15(ix), #1
                                                                                                                                                                                                                                                                             ; sideways blue barrel sprite tile
; set blue palette for barrel
ld
                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2C8F+8<sup>†</sup>j; sub_0_2C8F+77<sup>†</sup>j
                                                         loc_0_2D15:
                                                                                                                                        hl, #unk_0_62AF (hl)
                                                                                                              ld
                                                                                                              dec
ret
                                                                                                                                         NZ (hl),
                                                                                                                                                            #0x18
                                                                                                               ld
                                                                                                               ld
                                                                                                                                         a, (unk_0_638F)
                                                                                                               jp
ld
                                                                                                                                        c, a
hl, #dk_throw_barrel_spr
                                                                                                               14
                                                                                                               ld
                                                                                                                                         a, (unk_0_6382)
                                                                                                               rrca
                                                                                                                                        C, loc_0_2D2F
                                                                                                               jp
dec
 2D2E 0D
2D2F
2D2F
2D2F 79
                                                        loc_0_2D2F:
                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2C8F+9C↑j
                                                                                                                                        a, c
a, a
a, a
                                                                                                               ld
 2D30 87
2D31 87
2D32 87
                                                                                                              add
add
add
                                                                                                                                         a, a
 2D32 87
2D33 4F
2D34 87
2D35 87
2D36 81
2D37 5F
2D38 16 00
2D3A 19
                                                                                                               1d
                                                                                                              add
add
add
                                                                                                               ld
                                                                                                               ld
add
2D3A 19
2D3B CD 4E 00
2D3E 21 8F 63
2D41 35
2D42 C2 51 2D
2D45 3E 01
2D47 32 AF 62
2D4A 3A 82 63
2D4D 0F
2D4F DA 83 2D
                                                                                                                                        copy_sprites_2_11_data
h1, #unk_0_638F
(h1)
NZ, loc_0_2D51
                                                                                                              call
ld
dec
                                                                                                               jp
ld
                                                                                                               ld
ld
                                                                                                                                          (unk_0_62AF)
                                                                                                                                        a, (unk_0_6382)
                                                                                                               rrca
  2D4E DA 83 2D
                                                                                                                                        C, loc 0 2D83
                                                                                                               jр
  2D51
2D51
2D51 2A A8 62
                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2C8F+91^j; sub_0_2C8F+B3^j
                                                        loc_0_2D51:
 2D51
2D54
2D54
2D54
2D54
                                                                                                              ld
                                                                                                                                        hl, (unk_0_62A8)
                                                                                                                                       a, (h1)
ix, (unk_0_62AA)
de, (unk_0_62AC)
#0x7F;;;
                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2C8F+FA|j
                                                        loc_0_2D54:
                                                                                                               ld
  2D55 DD 2A AA 62
2D59 ED 5B AC 62
2D50 FE 7F
                                                                                                               ld
                                                                                                              ld
cp
 2D5F CA 8C 2D
2D62 4F
2D63 E6 7F
2D65 12
                                                                                                              jp
ld
and
ld
                                                                                                                                        Z, loc_0_2D8C
                                                                                                                                        c, a
#0x7F; ''
(de), a
a, 7(ix)
7, c
                                                                                                                                                                                                                                                                             ; sprite data X coord
; sprite tile #
 2D65 12
2D66 DD 7E 07
2D69 CB 79
2D6B CA 70 2D
2D6E EE 03
                                                                                                               ld
                                                                                                               bit
                                                                                                                                         Z, loc_0_2D70
                                                                                                               jр
                                                                                                               xor
 2D70
2D70
2D70
2D70 13
2D71 12
                                                         loc_0_2D70:
                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2C8F+DC j
                                                                                                                                                                                                                                                                             ; sprite tile # (barrel)
; sprite tile #
                                                                                                                                         (de), a
2D71 12
2D72 DD 77 07
2D75 DD 7E 08
2D78 13
2D79 12
                                                                                                               ld
                                                                                                                                        7(ix), a
a, 8(ix)
de
                                                                                                              ld
ld
                                                                                                               inc
                                                                                                                                          (de), a
                                                                                                               1d
 2D7A 23
2D7B 7E
2D7C 13
                                                                                                                                       a, (hl)
                                                                                                               ld
                                                                                                               inc
ld
                                                                                                                                           (de), a
  2D7D 12
  2D7E 23
2D7F 22
2D82 C9
2D83
                 23
22 A8 62
                                                                                                               inc
ld
                                                                                                                                         (unk_0_62A8), hl
                                                                                                               ret
 2D83
2D83
2D83 21 CC 39
                                                         loc_0_2D83:
                                                                                                                                                                                                                                                                              ; CODE XREF: sub_0_2C8F+BF j
                                                                                                                                         hl, #barrel_falling_data
                                                                                                               ld
 2D86 22 A8 62
2D89 C3 54 2D
2D8C
2D8C
                                                                                                               1d
                                                                                                                                        (unk_0_62A8), hl
loc_0_2D54
                                                                                                               jp
2D8C 2D8C 3 39 2D8F 22 A8 62 2D92 DD 36 01 01 2D96 3A 82 63 2D99 0F 3D A 5 2D 3D A 5 2D 3D A 5 2D A 
                                                        loc_0_2D8C:
                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_2C8F+D0 f j
                                                                                                                                        hl, #barell_rolling_data
(unk_0_62A8), hl
                                                                                                              ld
ld
                                                                                                               ld
                                                                                                                                         1(ix)
2D92 DD 36 01 01
2D96 3A 82 63
2D99 0F
2D9A DA A5 2D
2D9D DD 36 01 00
2DA1 DD 36 02 02
2DA5
2DA5
                                                                                                                                         a, (unk_0_6382)
                                                                                                              ld
rrca
                                                                                                                                        C, loc_0_2DA5
1(ix), #0
2(ix), #2
                                                                                                               jp
ld
                                                                                                               ld
                                                                                                                                                                                                                                                                            ; CODE XREF: sub 0 2C8F+10Bf;
2DA5 DD 36 00 01 2DA9 DD 36 0F 01 2DA9 DD 36 0F 01 2DAE DD 77 10 2DB1 DD 77 12 2DB4 DD 77 13 2DBA DD 77 14 2DBA DD 77 14
  2DA5
                                                        loc 0 2DA5:
                                                                                                                                        0(ix), #1
0xF(ix), #1
                                                                                                               ld
                                                                                                               ld
                                                                                                               xor
                                                                                                                                         a
0x10(ix), a
                                                                                                              ld
ld
ld
                                                                                                                                         0x11(ix), a
0x12(ix), a
0x13(ix), a
                                                                                                               ld
                                                                                                               1d
                                                                                                                                          0x14(ix)
  2DBD 32 93 63
                                                                                                                                          (barrel_deployment), a
```

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
 2DC0 32 92 63
                                                                                (unk_0_6392), a
                                                                 ld
DDC3 1A DDC4 DD 77 03 DDC4 13 DDC8 13 DDC8 13 DDC8 13 DDC8 1A DDC8 DD 77 05 DDC2 21 5C 38 DD1 CD 4E 00 DDC9 FF DDD7 C9 FC DDD9 FF DDD7 C9
                                                                                a, (de)
3(ix), a
                                                                 ld
                                                                ld
inc
inc
                                                                                de
de
                                                                 inc
                                                                                de
                                                                 ld
ld
ld
                                                                                a, (de)
5(ix), a
hl, #kong_normal_spr
                                                                 call
ld
ld
                                                                                copy_sprites_2_11_data
hl, #soft_sprite_ram+0xB
c, #0xFC; '3'
                                                                                                                                                              ; sprite #2, x coord
                                                                                                                                                               ; subtract 4 from x coord for 10 sprites
                                                                 rst
2DDA C9
2DDA
2DDA
2DDB
                                 ret
; End of function sub_0_2C8F
2DDB
2DDB
2DDB
2DDB
                                                              SUBROUTINE
2DDB 2DDB 3E 0A 2DDB 77 2DDE 77 2DDE 3A 80 63 2DE2 3C 2DE2 47 2DE6 3A 27 62 2DE9 40 2DEE 2DEE 2DEE 2DEE 2DEF 37 7
                                                                                                                                                              ; CODE XREF: 0000:1995 p
                                 sub_0_2DDB:
                                                                                a, #0xA
0x30
0x10
                                                                ld
rst
                                                                                                                                                              ; return if level bit not set
; return if mario not allive
                                                                 rst
                                                                 ld
                                                                                a,
                                                                                      (unk 0 6380)
                                                                 inc
                                                                 rra
                                                                               b, a
a, (level_type)
                                                                 14
                                                                 ld
                                                                 cp
jr
                                                                                NZ, loc_0_2DEE
                                                                 inc
                                 loc_0_2DEE:
                                                                                                                                                              ; CODE XREF: sub_0_2DDB+10 i
                                                                                a, #0xFE; '
                                                                 ld
2DEE 3E FE

2DF0 37

2DF1 2DF1 1F

2DF2 A7

2DF3 10 FC

2DF5 47

2DF6 3A 1A 60
                                                                 scf
                                 loc_0_2DF1:
                                                                                                                                                              ; CODE XREF: sub_0_2DDB+18|j
                                                                 rra
                                                                 and
djnz
                                                                                 loc_0_2DF1
2DF5 47 2DF6 3A 1A 60 2DF9 A0 2DFA C0 2DFB 3E 01 2DFD 32 A0 63 2E00 32 9A 63 2E03 C9 2E03 C9 2E04 2E04 2E04 2E04 2E04
                                                                 ld
                                                                                b, a
                                                                 ld
                                                                                      (gen_purpose_timer)
                                                                                b
NZ
                                                                 and
ret
                                                                                a, #1
(unk_0_63A0), a
(unk_0_639A), a
                                                                 ld
                                                                 14
                                                                 ld
                                                                 ret
                                  ; End of function sub_0_2DDB
                                                   SUBROUTINE
2E04
2E04
2E04
2E04
                                                                                                                                                               ; CODE XREF: 0000:198F1p
                                  sub_0_2E04:
ZEO4 3E 04
ZEO6 F7
ZEO8 DD 21 00 65
ZEOC FD 21 80 69
ZE10 06 0A
ZE12
ZE12
ZE12
ZE12 DD 7E 00
ZE15 OF
ZE16 D2 A7 2E
ZE19 3A 1A 60
ZE1C E6 OF
ZE1E C2 29 2E
ZE11 D7 7E 01
ZE24 EE 07
ZE26 FD 77 01
ZE24 EF 07
ZE29
ZE29
ZE29 DD 7E 0D
ZE2C FE 04
          3E 04
                                                                                a, #4
0x30
0x10
ix, #unk_0_6500
                                                                 ld
                                                                rst
rst
ld
                                                                                                                                                              ; return if level bit not set
; return if mario not alive
                                                                                iy, #soft_sprite_ram+0x80
b, #0xA
                                                                 ld
                                                                 ld
                                                                                                                                                               ; CODE XREF: sub_0_2E04+7D|j
                                  loc_0_2E12:
                                                                 ld
                                                                                a, 0(ix)
                                                                                                                                                              ; any active springs?
                                                                 rrca
                                                                 jp
ld
                                                                                NC, loc_0_2EA7
                                                                                                                                                               ; no, skip
                                                                                      (gen_purpose_timer)
                                                                 and
                                                                                 #0xF
                                                                                NZ, loc_0_2E29
a, 1(iy)
#7
                                                                 jp
ld
                                                                                                                                                              ; animate spring sprites
                                                                 xor
                                                                                1(iy), a
                                                                 1d
                                 loc_0_2E29:
                                                                                                                                                              ; CODE XREF: sub_0_2E04+1A j
                                                                 ld
                                                                                a. 0xD(ix)
2E29 DD 7E 0D
2E2C FE 04
2E2E CA 84 2E
2E31 DD 34 03
2E34 DD 34 03
2E37 DD 6E 0E
2E3A DD 66 0F
2E3D 7E
                                                                 cp
jp
inc
                                                                                Z, lo
3(ix)
                                                                                     loc_0_2E84
                                                                                 3(ix)
                                                                 inc
                                                                 ld
ld
ld
                                                                                1, 0xE(ix)
h, 0xF(ix)
a, (h1)
c, a
ZE3A DD 66 OF
2E3D 7E
2E3E 4F
2E3F FE 7F
2E41 CA 9C 2E
2E44 23
2E45 DD 86 05
2E48 DD 77 05
2E4B
2E4B
2E4B DD 75 0E
                                                                 ld
                                                                 cp
                                                                                 Z, loc_0_2E9C
                                                                               hl
a, 5(ix)
5(ix), a
                                                                 inc
                                                                 ld
                                 loc_0_2E4B:
                                                                                                                                                             ; CODE XREF: sub_0_2E04+A0|j
2E4B DD 75 0E
2E4E DD 74 0F
2E51 DD 7E 03
2E54 FE B7
                                                                 1d
                                                                                0xE(ix), 1
                                                                                0xF(ix), h
a, 3(ix)
#0xB7; 'Ã'
                                                                 ld
ld
2E54 FE B7
2E56 DA C 2E
2E59 79
2E5A FE 7F
2E5C C2 6C 2E
2E5F DD 36 0D 04
2E63 AF
2E64 32 83 60
2E67 3E 03
2E69 32 84 60
2E6C
2E6C
2E6C
2E6C DD 7E 03
2E69 C3
                                                                cp
jp
ld
cp
jp
ld
xor
                                                                                 C, loc_0_2E6C
                                                                                NZ, loc_0_2E6C
0xD(ix), #4
                                                                                                                                                              ; stop timer
                                                                                (digital_snd_tmr_coin_spring), a
                                                                 ld
                                                                                                                                                              ; tmr=3
                                                                 ld
                                                                                 (digital_snd_tmr_kong_fall), a
```

loc 0 2E6C:

loc_0_2E78:

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

de, #0x10

a, 5(ix),

ld ld

ld ld

1d

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

2E78 11 10 00

; CODE XREF: sub_0_2E04+52[†] j ; sub_0_2E04+58[†] j ...

; CODE XREF: sub_0_2E04+A7|j

; x corrd to sprite data

; y coord to sprite data

; sub_0_2E04+CD j ; 16 bytes/sprite

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
 2E7B DD 19
                                                                    add
                                                                                    ix, de
                                                                                                                                                                     ; next spring data
                                                                                    e, #4
iy, de
loc_0_2E12
 2E7D
                                                                    1d
2E7D 1E 04
2E7F FD 19
2E81 10 8F
2E83 C9
                                                                   add
djnz
                                                                                                                                                                     ; next sprite data
 2E84
 2E84
2E84
2E84
                                   loc_0_2E84:
                                                                                                                                                                     ; CODE XREF: sub_0_2E04+2A j
                                                                                   a, #3
a, 5(ix)
5(ix), a
#0xF8;
                                                                    ld
2E84 3E 03

2E86 DD 86 05

2E89 DD 77 05

2E8C FE F8

2E8E DA 6C 2E

2E91 DD 36 03 00

2E95 DD 36 00 00

2E99 C 36C 2E
                                                                   add
ld
                                                                    ср
                                                                                    C, loc_0_2E6C
                                                                    jp
ld
                                                                                    3(ix), #0
0(ix), #0
                                                                    ld
                                                                                    loc_0_2E6C
                                                                    jр
2E9C
2E9C
2E9C
2E9C 21 AA 39
2E9F 3E 03
2EA1 32 83 60
2EA4 C3 4B 2E
2EA7
                                   loc_0_2E9C:
                                                                                                                                                                     ; CODE XREF: sub_0_2E04+3D|j
                                                                    ld
                                                                                    hl, #bouncing_spring_data
                                                                                    a, #3
(digital_snd_tmr_coin_spring), a
                                                                    ld
                                                                                                                                                                     ; tmr=3
                                                                    ld
                                                                    jр
ZEA7
ZEA7
ZEA7
ZEA7
ZEA7
ZEAA 0F
ZEAB DZ
ZEAE AF
ZEAE AF
ZEAE AF
ZEAE AF
ZEAE BD 36 05 01
ZEBA CD 57 00
ZEBA CD 57 00
ZEBA CD 57 00
ZEBA CD 67 F8
ZEC1 DD 77 03
ZEC4 DD 36 00 01
ZEC8 Z1 AA 39
ZEC8 DD 75 0E
ZECE DD 74 0F
ZED1 C3 78 ZE
ZED1
ZED1
 2EA7
                                   loc_0_2EA7:
                                                                                                                                                                     ; CODE XREF: sub_0_2E04+12<sup>†</sup>j
                                                                                   a, (unk_0_6396)
                                                                    rrca
                                                                   jp
xor
ld
ld
                                                                                   NC, loc_0_2E78
                                                                                    a
(unk_0_6396), a
~''--' #0x50; 'P'
                                                                                   5(ix), #0x50;
0xD(ix), #1
rand
                                                                    ld
                                                                   call
and
add
                                                                                    #0xF
                                                                                   #UXF
3(ix), a
0(ix), #1
hl, #bouncing_spring_data
0XE(ix), 1
0XF(ix), h
                                                                   ld
ld
ld
                                                                    ld
                                                                    ld
                                                                                                                                                                     ; end of spring routine
                                                                    jp
                                   ; End of function sub_0_2E04
 2ED1
 2ED4
2ED4
ZED4
ZED4
ZED4
ZED4
ZED6 F7
ZED7 D7
ZED8 11 18 6A
ZEDB DD 21 80 66
ZED2 DF
ZEE2 DF
ZEE2 DF
ZEE2 DF
ZEE2 DB
ZEED
ZEED DD 36 0E 00
                                                               SUBROUTINE
                                   sub_0_2ED4:
                                                                                                                                                                     ; CODE XREF: 0000:1998 p
                                                                                   a, #0xB
0x30
                                                                    ld
                                                                                                                                                                     ; return if level bit not set
; return if mario not alive
; hammers in sprite ram
; hammer character data
                                                                    rst
                                                                    rst
ld
ld
                                                                                    0x10
                                                                                   de, #soft_sprite_ram+0x118
ix, #unk_0_6680
a, 1(ix)
                                                                    1d
                                                                    rrca
                                                                                   C, loc_0_2EED
de, #soft_sprite_ram+0x11C
ix, #unk_0_6690
                                                                    jp
ld
                                                                    ld
loc_0_2EED:
                                                                                                                                                                     ; CODE XREF: sub_0_2ED4+F^j
                                                                                   0xE(ix), #0
0xF(ix), #0xF0; '-'
a, (unk_0_6217)
                                                                    ld
                                                                    ld
                                                                   ld
rrca
                                                                                   NC, loc_0_2F97
                                                                    jp
xor
                                                                    ld
ld
                                                                                     (unk_0_6218)
                                                                                  \unin_U_0218), a
hl, #unk_0_6089
(hl), #4
9(ix), #6
0xA(ix), #3
b, #0x1E
                                                                    ld
                                                                    ld
ld
ld
                                                                                   a, (mario_flipy_sprite_tile)
                                                                    1d
                                                                   sla
jp
                                                                                    NC, loc_0_2F1B
                                                                    or
                                                                                    #0x80 ;
                                                                    set
                                                                                    7, b
                                  loc_0_2F1B:
                                                                                                                                                                    ; CODE XREF: sub_0_2ED4+40 j
2F1D 4F
2F1E 3A 94 63
2F21 CB 5F
                                                                   ld
ld
                                                                                    c, a
a, (unk_0_6394)
3, a
2F21 CB 5F
2F23 CA 43 2F
2F26 CB CO
2F28 CB C1
2F2A DD 36 09 05
2F2E DD 36 0F 00
2F32 DD 36 0F 00
2F36 DD 36 0E F0
2F3A CB 79
2F3C CA 43 2F
                                                                    bit
                                                                                   3, a
Z, loc_0_2F43
                                                                    jp
set
                                                                                   2, 10c_0_2F43

0, b

0, c

9(ix), #5

0xA(ix), #6

0xF(ix), #0

0xE(ix), #0xF0; '-'
                                                                    ld
ld
                                                                    ld
ld
                                                                    bit
2F3A CB 79
2F3C CA 43 2F
2F3F DD 36 0E 10
2F43
2F43
                                                                                    Z, loc_0_2F43
0xE(ix), #0x10
                                                                                                                                                                     ; CODE XREF: sub_0_2ED4+4F^j
                                  loc 0 2F43:
2F43 79
2F43 2F44 32 4D 69
                                                                                                                                                                     ; sub_0_2ED4+681j
                                                                   ld
ld
                                                                                    a, c
(soft_sprite_ram+0x4D), a
                                                                                   (solt_sprite_rail
c, #7
h1, #unk_0_6394
(h1)
NZ, loc_0_2FB7
h1, #unk_0_6395
2F47 0E 07
2F49 21 94 63
2F4C 34
2F4D C2 B7 2F
                                                                    ld
                                                                   ld
                                                                    jp
ld
 2F50 21 95 63
2F53 34
2F54 7E
                                                                    inc
                                                                                    (h1)
a, (h1)
#2
```

2F55 FE 02 2F57 C2 BE 2F

2F57 C2 BE 2F 2F5A AF 2F5B 32 95 63 2F5E 32 17 62 2F61 DD 77 01 2F64 3A 03 62 2F67 ED 44 2F69 DD 77 0E

2F6C 3A 07 62

cp jp xor ld

ld

ld ld

neg

1d

NZ, loc_0_2FBE

a (unk_0_6395), a

(unk_0_6217), a

0xE(ix). a

a, (mario_y_coord)

a, (mario_flipy_sprite_tile)

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File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
2F6F 32 4D 69
2F72 DD 36 00 00
2F76 3A 89 63
2F79 32 89 60
2F7C
2F7C
2F7C EB
                                                                      (soft_sprite_ram+0x4D), a
                                                        ld
                                                                     0(ix), #0
a, (unk_0_6389)
(unk_0_6089), a
                                                        ld
                                                                                                                                         ; CODE XREF: sub_0_2ED4+E0|j
                            loc 0 2F7C:
                                                                                                                                         ; sub_0_2ED4+E7|j
                                                                     de, hl
a, (mario_y_coord)
a, 0xE(ix)
                                                        ex
ld
                                                                                                                                        ; calc hammer X
2F80 DD 86 0E
                                                                     a, 0xE(i, (hl), a 3(ix), a hl
                                                        add
2F83 77
2F84 DD 77 03
2F87 23
                                                        ld
ld
2F87 23
2F88 70
2F89 23
2F8A 71
2F8B 23
                                                        inc
                                                                      (hl), b
                                                        ld
inc
                                                                     hl (hl), c
                                                        ld
                                                        inc
                                                                     hl
2F8B 23
2F8C 3A 05 62
2F8F DD 86 0F
2F92 77
2F93 DD 77 05
2F96 C9
2F97
2F97
                                                                     a, (mario_x_coord)
a, 0xF(ix)
(hl), a
                                                        ld
                                                                                                                                        ; calc hammer Y
                                                        add
ld
                                                        1d
                                                                     5(ix), a
2F97
2F97 3A 18 62
2F9A 0F
2F9B D0
2F9C DD 36 0A 03
2FA4 3A 07 62
2FA7 07
                            loc_0_2F97:
                                                                                                                                        ; CODE XREF: sub 0 2ED4+251i
                                                       ld
rrca
                                                                     a, (unk_0_6218)
                                                        ret
                                                                     9(ix), #6
0xA(ix),
                                                        14
                                                        ld
ld
                                                                     a, (mario_flipy_sprite_tile)
2FA7 07
2FA8 3E 3C
2FAA 1F
2FAB 47
2FAC 0E 07
2FAE 3A 89 60
2FB1 32 89 63
2FB4 C3 7C 2F
                                                        rlca
                                                       ld
rra
ld
                                                                     a, #0x3C; '<'
                                                                     b, a
c, #7
a, (unk_0_6089)
(unk_0_6389), a
loc_0_2F7C
                                                                                                                                        ; hammer tile #
                                                        ld
                                                        ld
                                                        jр
2FB4 C3 7C 2F
2FB7
2FB7
2FB7 3A 95 63
2FBA A7
2FBB CA 7C 2F
2FBE 2FBE
                             loc_0_2FB7:
                                                                                                                                         ; CODE XREF: sub_0_2ED4+79<sup>†</sup> j
                                                                     a, (unk_0_6395)
                                                       ld
                                                        and
                                                                     Z, loc_0_2F7C
                                                        jp
2FBE
                            loc 0 2FBE:
                                                                                                                                        ; CODE XREF: sub 0 2ED4+831j
2FBE 2FBE 3A 1A 60 2FC1 CB 5F 2FC3 CA 7C 2F 2FC6 0E 01 2FC8 C3 7C 2F
                                                        14
                                                                     a, (gen_purpose_timer)
                                                        bit
                                                                     3, a
Z, loc_0_2F7C
                                                        jp
ld
                                                        jp
                                                                     loc 0 2F7C
2FC8
2FC8
                             ; End of function sub_0_2ED4
2FCB
2FCB
2FCB
2FCB
                                        SUBROUTINE
sub_0_2FCB:
                                                                                                                                        ; CODE XREF: 0000:19BF p
                                                       ld
rst
ld
                                                                     a, #0xE
0x30
h1, #unk_0_62B4
(h1)
                                                                                                                                         ; return if level bit not set
                                                        dec
                                                                     (NI)
NZ
a, #3
(unk_0_62B9), a
(unk_0_6396), a
de, #0x501
queue_fg_vector_fn
                                                        ret
ld
                                                        ld
ld
                                                        ld
                                                                                                                                        ; update_bonus_timer
                                                       call
ld
2FE1 3A B3 62
2FE4 77
2FE5 21 B1 62
2FE8 35
                                                                     a, (unk_0_62B3)
(hl), a
hl, #unk_0_62B1
(hl)
                                                        ld
ld
                                                        dec
                                                                     (h.
NZ
#1
2FE9 C0
2FEA 3E 01
2FEC 32 86 63
2FEF C9
                                                        ret
                                                        ld
ld
                                                                      (unk_0_6386), a
                                                       ret
2FEF
2FEF
2FFO
2FFO
2FFO
2FFO
2FFO
                             ; End of function sub_0_2FCB
                                                  SUBROUTINE
                            get_tilemap_addr_from_coords:
                                                                                                                                            CODE XREF: draw_level_background+10 p
2FF0
2FF0 7D
2FF0
2FF1 0F
2FF2 0F
2FF3 0F
                                                                                                                                         ; draw_level_background+3D\rangle p ...
                                                                                                                                         ; Y pos in bits [7:3]
                                                        rrca
                                                        rrca
                                                        rrca
2FF4 E6 1F
2FF6 6F
2FF7 7C
                                                                                                                                         ; shift to [4:0]
; store as LSB of screen address
; X pos in bits [7:3]
                                                                     #0x1F
                                                        ld
                                                                     l, a
a, h
                                                        ld
2FF8 2F
2FF9 E6 F8
2FFB 5F
2FFC AF
                                                       cpl
and
ld
                                                                     #0xF8 ; '°'
                                                                     e, a
                                                        xor
2FFC AF
2FFD 67
2FFE CB 13
3000 17
3001 CB 13
3003 17
3004 C6 74
3006 57
3007 19
                                                       ld
rl
rla
                                                                     h, a
                                                        rl
                                                                     е
                                                                                                                                         ; A=Xpos bits [7:6], E=[5:3] ; add start of VRAM
                                                        rla
                                                                     a, #0x74 ; 't'
d, a
hl, de
                                                        1d
                                                                                                                                         ; store
; HL = screen address
                                                        add
 3008 C9
3008
                            ret; End of function get_tilemap_addr_from_coords
```

SUBROUTINE

d, a

C, loc_0_3022

ld

rrca jp ; CODE XREF: 0000:18DF1p

; sub_0_1AC3+1DB p ...

3008 3009

300B DA 22 30

sub_0_3009:

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
300E 0E 93
                                                          c, #0x93 ; 'ô'
                                               ld
3010 OF
                                               rrca
3010 OF
3011 OF
3012 D2 17 30
3015 OE 6C
3017
3017
3017 07
3018 DA 31 30
                                                          NC, loc_0_3017
c, #0x6C; '1'
                        loc_0_3017:
                                                                                                                   ; CODE XREF: sub_0_3009+91j
                                               rlca
                                                          C, loc_0_3031
                                               jp
ld
301B 79
301C E6 F0
301E 4F
301F C3 31 30
                                                           a, c
#0xF0 ; '-'
                                               and
ld
                                                           c, a
loc_0_3031
                                               jр
loc_0_3022:
                                                                                                                    ; CODE XREF: sub_0_3009+2 j
                                                          c, #0xB4 ; '-
                                               ld
                                               rrca
                                                          NC, loc_0_302B
                                               jp
ld
                                                          c, #0x1E
                         loc_0_302B:
                                                                                                                    ; CODE XREF: sub_0_3009+1D<sup>†</sup> j
                                               bit
                                                          2, b
z, loc_0_3031
                                               jp
dec
                        loc_0_3031:
                                                                                                                    ; CODE XREF: sub 0 3009+F1 j
                                                                                                                    ; sub_0_3009+161j ...
                                               ld
                                                          a, 0
                                               rrca
                                               rrca
                                               ld
and
                                                          c, a
#3
                                               ср
                                               jp
ld
rrca
                                                          NZ. loc 0 3031
                                               rrca
                                               and
                                                          #3
                                               cp
ret
                                                          2, d
d
                                               res
dec
                                               ret
ld
                                                          NZ
                                                          a, #4
                                               ret
                        ; End of function sub_0_3009
                                              SUBROUTINE
                        sub_0_304A:
                                                                                                                   ; CODE XREF: 0000:0AF0<sup>p</sup>; 0000:0B38<sup>p</sup>
                                               ld
                                                          de, #0xFFE0
a, (unk_0_638E)
                                               ld
ld
                                                          a,
c,
                                                          C, a
b, #0
hl, #VRAM_start+0x200
sub_0_3064
hl, #VRAM_start+0x1C0
sub_0_3064
                                               ld
ld
call
ld
                                               call
                                               ld
dec
                                                          hl, #unk_0_638E
(hl)
                                               ret
                         ; End of function sub_0_304A
                         ; SUBROUTINE
                        sub_0_3064:
                                                                                                                    ; CODE XREF: sub_0_304A+C\(^1\)p ; sub_0_304A+12\(^1\)p
                                                          hl, bc
a, (hl)
hl, de
                                               add
       7E
19
77
                                               ld
add
3066 19
3067 77
3068 C9
3068
3068
3069
3069
3069
                                                           (hl), a
                                               ld
                         ; End of function sub_0_3064
                                                                                                                      DATA XREF: 0000:0A80↑o
                        loc_0_3069:
3069 DF
3069 DF
3069
306A 2A CO 63
306D 34
306E C9
306F
306F
306F
                                                                                                                      wait for 8-bit countdown
                                                          0x18
hl, (unk_0_63C0)
(hl)
                                               rst
ld
                                               inc
ret
                                               SUBROUTINE
; CODE XREF: 0000:0AE8|p; 0000:1732|p ...
                        sub_0_306F:
                                               ld
                                                          hl. #unk 0 62AF
                                               inc
ld
and
                                                          (hl)
a, (hl)
#7
                                               ret
                                                          NZ
                                                          hl, #soft_sprite_ram+0xB
c, #0xFC; '3'
0x38
                                               ld
ld
                                                                                                                   ; sprite #2, x coord
                                               rst
ld
                                                          c, #0x81 ; 'ü'
hl, #soft spri
                                               ld
call
ld
                                                          hl, #soft_sprite_ram+9
sub_0_3096
                                                                                                                   ; sprite #2, flipy & code
                                                          h1, #soft_sprite_ram+0x1D
sub_0_3096
                                               call
call
and
ld
                                                          sub_0_3090
rand
#0x80 ; 'C'
hl, #soft_sprite_ram+0x2D
(hl)
```

ret ; End of function sub_0_306F

3095 3095

sub_0_313C sub_0_31B1 sub_0_34F3

(unk_0_6380)

#6 C, loc_0_3103

SUBROUTINE

; spawn fireballs?

; CODE XREF: sub_0_30ED1p

; CODE XREF: sub_0_30FA+5[†] j

process fireball AI? add fireballs to sprite display

call

call

ld

cp jr ld

ret
; End of function sub_0_30ED

sub_0_30FA:

loc_0_3103:

3103 3103

```
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```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
 3103 EF
                                                                             rst
                                                                                                                                                                                            ; go!
.dw loc_0_3110
.dw loc_0_3110
.dw loc_0_311B
                                                                                                                                                                                            ; Jump table
                                                                              .dw loc_0_3126
                                                                              .dw loc_0_3131
                                        loc_0_3110:
                                                                                                                                                                                            ; DATA XREF: sub_0_30FA+A\uparrow o; sub_0_30FA+C\uparrow o
                                                                             ld
                                                                                                     (gen_purpose_timer)
                                                                             and
                                                                                               #1
                                                                            cp
ret
                                                                             inc
                                                                                               sp
                                                                             inc
                                        loc_0_311B:
                                                                                                                                                                                           ; DATA XREF: sub_0_30FA+E<sup>†</sup>o
                                                                             ld
                                                                                                      (gen_purpose_timer)
                                                                             and
                                                                            cp
ret
inc
                                                                                               #5
M
                                                                                               sp
                                                                                               sp
                                       loc_0_3126:
                                                                                                                                                                                            ; DATA XREF: sub_0_30FA+10 o
                                                                                                                                                                                            ; sub_0_30FA+12†c
                                                                            ld
and
                                                                                                      (gen_purpose_timer)
312B FE 03
312D F8
312E 33
312F 33
312F 33
3130 C9
3131
3131
3131
3131 34 14 60
3134 E6 07
3136 FE 07
3138 F8
3139 33
3130 33
3130 C9
                                                                                               #3
M
                                                                             Cρ
                                                                             ret
inc
                                                                                               sp
                                                                                               sp
                                                                             ret
                                        loc 0 3131:
                                                                                                                                                                                           ; DATA XREF: sub_0_30FA+14\u00e10
                                                                                               a,
#7
#7
M
                                                                             ld
                                                                                                      (gen_purpose_timer)
                                                                            and
cp
                                                                             ret
                                                                            inc
inc
ret
                                                                                               sp
sp
; End of function sub_0_30FA
                                                                        SUBROUTINE
                                                                                                                                                                                            ; CODE XREF: sub_0_30ED+3<sup>†</sup>p
; fireball character data
                                        sub_0_313C:
313C DD 21 00
3140 AF
3141 32 A1 63
3144 06 05
3146 11 20 00
3149 DD 7E 00
314C FE 00
314C FE 00
314E CA 7C 31
3151 3A A1 63
3154 3C
3155 32 A1 63
3158 3E 01
315D 3A 17 62
3160 FE 01
3162 C2 6A 31
3165 3E 00
3166 DD 77 08
                                                                             ld
                                                                                               ix, #unk_0_6400
                                                                            xor
ld
ld
                                                                                                 (unk_0_63A1), a
                                                                                               b, #5
de, #0x20 ; ' '
                                                                             ld
                                        loc_0_3149:
                                                                                                                                                                                            ; CODE XREF: sub_0_313C+30|j
                                                                                               a, 0(ix)
                                                                            cp
jp
ld
                                                                                               #0
                                                                                               Z, loc_0_317C
                                                                                               a, (unk_0_63A1)
                                                                             inc
                                                                                                (unk_0_63A1), a
                                                                            ld
ld
ld
                                                                                              8(ix), a
a, (unk_0_6217)
                                                                            cp
jp
ld
ld
                                                                                               NZ, loc_0_316A
a, #0
                                                                                               a, #0
8(ix), a
 316A
316A
316A DD 19
                                        loc_0_316A:
                                                                                                                                                                                           ; CODE XREF: sub_0_313C+26<sup>†</sup>j; sub_0_313C+45<sup>†</sup>j ...
316A DB
316E 21 A0 63
3171 36 00
3178 3A A1 63
3176 FE 00
3178 C0
3179 33
317B C9
317C 317C
317C
317C
317C
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 A0 63
3191 B9
3194 C8
3195 3A A0 63
3193 B9
3194 C8
3195 3A A0 63
3193 B9
3194 C8
3195 3A A0 63
3193 B9
3194 C8
3195 3A A0 63
3198 FE 01
319A C2 6A 31
319B C2 6A 31
319B C2 6A 31
319B C2 6A 31
319B C3 6A 31
31A 32 A0 63
                                                                             add
                                                                                               ix, de
                                                                                               loc_0_3149
hl, #unk_0_63A0
(hl), #0
                                                                            djnz
ld
ld
ld
                                                                                                      (unk_0_63A1)
                                                                             cp
ret
                                                                                               sp
sp
                                                                             inc
                                       loc_0_317C:
                                                                                                                                                                                            ; CODE XREF: sub 0 313C+1211
                                                                                               a, (unk_0_63A1)
#5
Z, loc_0_316A
                                                                             ld
                                                                             ср
                                                                            jp
ld
cp
jp
ld
ld
                                                                                                      (level_type)
                                                                                               NZ, loc_0_3195
                                                                                                                                                                                            ; no, continue
; cement level timers
                                                                                               a, (unk_0_63A1)
c, a
a, (unk_0_6380)
```

; CODE XREF: sub_0_313C+4D[†]j; spawn a fireball

ср

ld cp jp ld

ld xor ld ld

inc ld

loc_0_3195:

31AB 32 A1 63

ret

c Z

a, (unk_0_63A0)
#1

NZ, loc_0_316A 0(ix), a 0x18(ix), a

(unk_0_63A0), a a, (unk_0_63A1)

(unk_0_63A1), a

```
jp loc_0_316A
; End of function sub_0_313C
31AE C3 6A 31
31AE
31AE
31B1
31B1
                                                         SUBROUTINE
31B1
31B1
31B1
31B1
                               sub_0_31B1:
                                                                                                                                                  ; CODE XREF: sub_0_30ED+61p
        CD DD 31
                                                           call
                                                                          sub_0_31DD
31B4 AF
31B5 32 A2 63
31B8 21 E0 63
31BB 22 C8 63
                                                           xor
                                                                         (unk_0_63A2), a
hl, #unk_0_63E0
(unk_0_63C8), hl
                                                           ld
ld
31BB 22 C8 63
31BE 31BE 23 C8 63
31C1 01 20 00
31C4 09
31C5 22 C8 63
31C8 7E
31C9 A7
31CA CA D0 31
31C0 CD 02 32
31D0 31D0 31D0 31D0 31D0 31D0 31D3 A A2 63
31D3 3C 31D4 32 A2 63
31D7 FE 05
31D9 C2 BE 31
                                                           ld
                               loc_0_31BE:
                                                                                                                                                 ; CODE XREF: sub_0_31B1+28 | j
                                                           ld
                                                                          hl, (unk_0_63C8)
                                                           ld
                                                                          bc, \#0x20; hl, bc
                                                           add
ld
ld
                                                                          (unk_0_63C8), hl
a, (hl)
                                                           and
                                                           jp
call
                                                                          Z. loc 0 31D0
                                                                          sub_0_3202
                                                                                                                                                ; CODE XREF: sub_0_31B1+19 j
                              loc_0_31D0:
                                                           ld
inc
                                                                          a, (unk_0_63A2)
                                                                          (unk_0_63A2), a
                                                           cp
jp
31D7 FE 05
31D9 C2 BE 31
31DC C9
31DC
31DC
31DD
31DD
31DD
                                                                          NZ, loc_0_31BE
                                                           ret
                               ; End of function sub_0_31B1
                                                        SUBROUTINE ...
sub_0_31DD:
                                                                         a, (unk_0_6380)
#3
                                                                                                                                                 ; CODE XREF: sub_0_31B1\p
                                                           ld
                                                           cp
ret
call
                                                                          sub_0_31F6
                                                           cp
ret
                                                                          NZ
                                                                         NZ
hl, #unk_0_6439
a, #2
(h1), a
hl, #unk_0_6479
a, #2
                                                           ld
ld
                                                           ld
                                                           14
                                                           ld
ld
                                                                          a, #2
(hl), a
                                                           ret
                               ; End of function sub_0_31DD
31F6
31F6
31F6
31F6
                                                         SUBROUTINE
                                                                                                                                                 ; CODE XREF: sub_0_31DD+6 p
                               sub_0_31F6:
31F6 3A 18 60
31F9 E6 03
31FB FE 01
31FD C0
31FE 3A 1A 60
3201 C9
                                                           ld
and
cp
                                                                               (random_no)
                                                           ret
ld
                                                                          NZ
31FE
3201
3201
                                                                          a, (gen_purpose_timer)
                               ret
; End of function sub_0_31F6
3201
3202
3202
3202
                                                           SUBROUTINE
3202 3202 3202 3202 3202 3202 3202 3208 63 3209 FE 01 3208 CA 7A 32 3206 DD 7E 10 3211 FE 04 3213 FE 02 3216 DD 7E 19 3219 FE 02 3218 CA 7E 32 321E CD 0F 33 3221 3A 18 60 3224 E6 03 32 3226 C2 33 32
                               sub_0_3202:
                                                                                                                                                 ; CODE XREF: sub_0_31B1+1C1p
                                                                         ix, (unk_0_63C8)
a, 0x18(ix)
                                                           ld
                                                           cp
jp
ld
                                                                          #1
                                                                         Z, loc_0_327A
a, 0xD(ix)
#4
                                                           cp
jp
ld
cp
jp
call
ld
                                                                         P, loc_0_3230
a, 0x19(ix)
#2
                                                                         #2
Z, loc_0_327E
sub_0_330F
a, (random_no)
#3
                                                           and
3226 C2 33 32
                                                                          NZ, loc_0_3233
                                                           jp
3229
3229
3229 DD 7E 0D
322C A7
                               loc_0_3229:
                                                                                                                                                 ; CODE XREF: sub_0_3202+7F|j
                                                           ld
                                                                          a, 0xD(ix)
                                                           and
322D CA 57 32
3230
3230
                                                                         Z, loc_0_3257
                                                           jp
                              loc_0_3230:
                                                                                                                                                 ; CODE XREF: sub_0_3202+11 j
3230 CD 3D 33
3233
3233
3233 DD 7E 0D
                                                           call
                                                                          sub_0_333D
                              loc_0_3233:
                                                                                                                                                 ; CODE XREF: sub_0_3202+24 j
3233 DD 7E 0D
3236 FE 04
3238 F2 91 32
3238 CD AD 33
323E CD 8C 29
3241 FE 01
3243 CA 97 32
3246 DD 2A C8 63
324A DD 7E 0E
324D FE 10
324F DA 8C 32
3252 FE F0
3254 DZ 84 32
3257
                                                           ld
                                                                          a. 0xD(ix)
                                                           cp
jp
call
                                                                         #4
P, loc_0_3291
                                                                          sub_0_33AD
                                                           call
                                                                          sub_0_298C
                                                           cp
jp
ld
ld
                                                                         #1
Z, loc_0_3297
ix, (unk_0_63C8)
a, 0xE(ix)
                                                           cp
                                                                          #0x10
C, loc_0_328C
                                                           cp
jp
                                                                          NC. loc 0 3284
3257
3257
3257
3257 DD 7E 13
3257
                                                                                                                                                 ; CODE XREF: sub_0_3202+2B<sup>†</sup>j; sub_0_3202+87<sup>†</sup>j ...
                               loc_0_3257:
                                                                          a, 0x13(ix)
#0
                                                           ld
        FE 00
C2 B9 32
                                                           ср
                                                                          NZ, loc_0_32B9
                                                           jp
ld
                                                                          a, #0x11
 325F
         3E 11
```

```
; CODE XREF: sub_0_3202+B8|j
3261 DD 77 13
3264 16 00
3266 5F
3267 21 7 3A
326A 19
326B 7E
326C DD 46 0E
326F DD 70 03
3272 DD 4E 0F
3275 81
3276 DD 77 05
3279 C9
3278
                                                          ld
ld
ld
                                                                        d, #0
e, a
hl, #fireball_bouncing_data
                                                          add
ld
ld
ld
ld
                                                                        hl, de
a, (hl)
b, 0xE(ix)
                                                                        a, (hl)
b, 0xE(ix)
3(ix), b
c, 0xF(ix)
                                                           add
ld
                                                                         5(ix), a
                                                           ret
327A
327A
327A
327A CD BD 32
                              loc_0_327A:
                                                                                                                                               ; CODE XREF: sub_0_3202+91j
                                                          call
                                                                         sub 0 32BD
327E CD
327E
327E
327E
327E
327E CD D6 32
3281 C3 29 32
3284
3284
                              loc_0_327E:
                                                                                                                                               ; CODE XREF: sub_0_3202+191j
                                                                         sub_0_32D6
loc_0_3229
                                                           call
                                                           jp
3284
3284 3E 02
                              loc_0_3284:
                                                                                                                                               ; CODE XREF: sub_0_3202+521j
                                                                         a, #2
3286
3286
                              loc_0_3286:
                                                                                                                                               ; CODE XREF: sub_0_3202+8C-j
3286 DD 77 0D
3289 C3 57 32
328C
                                                                         0xD(ix), a
loc_0_3257
                                                           jр
328C
328C
328C
                              loc_0_328C:
                                                                                                                                               ; CODE XREF: sub_0_3202+4Dfj
 328C 3E 01
328E C3 86 32
                                                                         a, #1
loc_0_3286
                                                           αĖ
                              loc_0_3291:
                                                                                                                                               ; CODE XREF: sub_0_3202+36 j
3291 CD E7 33 3294 C3 57 32 3297 3297 3297 3297 3297 DD 2A C8 63 329B DD 7E 0D 329E FE 01 32A0 C2 B1 32 32A3 3E 02 32A8 DD 35 0E 32A8 32A8
                                                                        sub_0_33E7
loc_0_3257
                                                           call
                                                                                                                                               ; CODE XREF: sub_0_3202+411j
                              loc_0_3297:
                                                                        ix, (unk_0_63C8)
a, 0xD(ix)
#1
                                                           ld
ld
                                                          cp
jp
ld
dec
                                                                         NZ, loc_0_32B1
                                                                         a, #2
0xE(ix)
32A5 DD 35 0E
32A8
32A8 32A8 DD 77 0D
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
                                                           call
                                                           jp
32B1
32B1
32B1
                                                                                                                                               ; CODE XREF: sub_0_3202+9E<sup>†</sup> j
                              loc_0_32B1:
32B1 3E 01
32B3 DD 34 0E
32B6 C3 A8 32
                                                          ld
inc
jp
                                                                         loc_0_32A8
32B9
32B9
32B9
32B9
                              loc_0_32B9:
                                                                                                                                               ; CODE XREF: sub_0_3202+5A j
                                                                        a
loc_0_3261
 32BA C3 61 32
                              jp
; End of function sub_0_
 32BA
32BA
32BD
32BD
32BD
32BD
32BD
                              ; SUBROUTINE
                                                                                                                                               ; CODE XREF: sub_0_3202+781p
                              sub_0_32BD:
32BD 3A 27 62 32BD 3A 27 62 32CD FE 01 32C2 CA CE 32 32C7 CA D2 32 32CA CD B9 34 32CB
                                                                        a, (level_type)
#1
                                                           1d
                                                          cp
jp
                                                                        T, loc_0_32CE
                                                          cp
jp
call
                                                                         Z, loc_0_32D2
sub_0_34B9
                                                           ret
32CD C9
32CE
32CE
32CE
32CE CD 2C 34
32D1 C9
32D2
32D2
32D2
                              loc_0_32CE:
                                                                                                                                               ; CODE XREF: sub_0_32BD+5<sup>†</sup> j
                                                          call
                                                                        sub_0_342C
32D2
32D2 CD 78 34
32D5 C9
32D5
32D5
                                                                                                                                               ; CODE XREF: sub 0 32BD+A1j
                              loc_0_32D2:
                                                           call
                                                                         sub_0_3478
                              ret; End of function sub_0_32BD
32D6
32D6
32D6
32D6
32D6
                                                        SUBROUTINE
32D6
32D6
32D6
32D6
DD 7E 1C
32D9 FE 00
32DB CC FD 32
32DE DD 7E 1D
32E1 FE 01
32E3 CC 0B 33
32E6 DD 36 1D 00
32EA 3A 05 62
32ED DD 46 0F
32F0 90
32F1 DA 03 33
32F4 DD 36 1C FF
32F8
32F8
                              sub_0_32D6:
                                                                                                                                               ; CODE XREF: sub_0_3202+7Cfp
                                                                        a, 0x1C(ix)
#0
                                                           ср
                                                                        NZ, loc_0_32FD
                                                          jp
ld
cp
                                                                         a, 0x1D(ix)
                                                                        #1
NZ, loc_0_330B
0x1D(ix), #0
a, (mario_x_coord)
b, 0xF(ix)
                                                           jp
ld
                                                           ld
ld
                                                           sub
                                                                         C, loc_0_3303
0x1C(ix), #0xFF
                             loc_0_32F8:
                                                                                                                                               ; CODE XREF: sub 0 32D6+2A-j
 32F8
32F8 DD 36 0D 00
32FC C9
32FD
                                                          ld
                                                                        0xD(ix), #0
                             loc_0_32FD:
                                                                                                                                               ; CODE XREF: sub_0_32D6+5<sup>†</sup>j
```

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
 32FD DD 35 1C
3300 C2 F8 32
                                                                             0x1C(ix)
                                                                            NZ, loc_0_32F8
 3303
3303
3303 DD 36 19 00
3307 DD 36 1C 00
                                loc_0_3303:
                                                                                                                                                       ; CODE XREF: sub_0_32D6+1B|j
                                                                            0x19(ix), #0
0x1C(ix), #0
                                                              ld
 330B
 330B
330B CD OF 33
                                loc_0_330B:
                                                                                                                                                       ; CODE XREF: sub_0_32D6+D<sup>†</sup>j
                                                              call
                                                                            sub_0_330F
 330E C9
                                                              ret
 330E
330E
330F
                                ; End of function sub_0_32D6
 330F
330F
330F
330F
                                                            SUBROUTINE 
330F
330F
330F
330F
330F
250
3312 FE 00
3314 C2 32 33
3317 DD 36 16 2B
3318 DD 36 0D 00
331F 3A 18 60
3322 OF
3323 DZ 32 33
3326 DD 7E 0D
3329 FE 01
3329 CA 36 33
3322 DD 36 0D 01
3332
3332 DD 35 16
3336
3336 C3
3336 C3
3336 C3
3336 C3
3336 DD 36 0D 02
3336 C3
3336 DD 36 0D 02
3338 C3 32 33
333A
333A
                                                                                                                                                       ; CODE XREF: sub_0_3202+1C<sup>p</sup>; sub_0_32D6+35<sup>p</sup>
                                sub 0 330F:
                                                                            a, 0x16(ix)
#0
                                                              ср
                                                                            #0
NZ, loc_0_3332
0x16(ix), #0x2B; '+'
0xD(ix), #0
a, (random_no)
                                                              jp
ld
ld
ld
                                                              rrca
jp
ld
                                                                            NC, loc_0_3332
a, 0xD(ix)
#1
Z, loc_0_3336
                                                              ср
                                loc_0_3332:
                                                                                                                                                       ; CODE XREF: sub_0_330F+5<sup>†</sup>j
                                                                                                                                                       ; sub_0_330F+14†j ...
                                                                            0x16(ix)
                                                              ret
                                                                                                                                                       ; CODE XREF: sub_0_330F+1C j
                                loc_0_3336:
                                                                             0xD(ix)
                                                              ld
                                jp loc_
; End of function sub_0_330F
                                                                             loc_0_3332
SUBROUTINE
                                sub 0 333D:
                                                                                                                                                       ; CODE XREF: sub 0 3202+2Efp
                                                                             a, 0xD(ix)
#8
Z, loc_0_3371
                                                              14
                                                              ср
                                                              jр
                                                              cp
jp
call
                                                                            #4
Z, loc_0_338A
sub_0_33A1
a, 0xF(ix)
a, #8
d, a
                                                              add
ld
ld
ld
                                                                             d, a
a, 0xE(ix)
                                                              call
and
jp
ld
ld
                                                                             sub_0_236E
                                                                             a
Z, loc_0_3399
                                                                            0x1F(ix), b
a, (mario_x_coord)
                                                              ld
ld
                                                                            b, a
a, 0xF(ix)
                                                             sub
ret
                                                                             0xD(ix), #4
                                                              ret
                                loc_0_3371:
                                                                                                                                                       ; CODE XREF: sub_0_333D+5<sup>†</sup>j
                                                                            a, 0xF(ix)
                                                              ld
3371 DD 7E 0F

3374 C6 08

3376 DD 46 1F

3379 B8

337A C0

337B DD 36 0D 00

337F DD 7E 19

3382 FE 02

3384 C0

3385 DD 36 1D 01

3389 C9

338A

338A
                                                                            a, #8
b, 0x1F(ix)
b
NZ
                                                              add
                                                              ld
cp
                                                              ret
                                                                            0xD(ix), #0
a, 0x19(ix)
#2
                                                              ld
ld
                                                              ср
                                                              ret
                                                                             NZ
                                                              1d
                                                                             0x1D(ix), #1
338A

338A

338A

338A

338A

338A

338A

338D

C6 08

338F DD 46 1F

3392 B8

3393 C0

3394 DD 36 0D 00

3398 DD 36 0D 00
                                loc_0_338A:
                                                                                                                                                       ; CODE XREF: sub_0_333D+A1j
                                                                             a, 0xF(ix)
                                                              add
ld
                                                                             a, #8
b, 0x1F(ix)
                                                              cp
ret
ld
                                                                            b
NZ
OxD(ix), #0
 3398 C9
3399
3399
3399
                                                                                                                                                      ; CODE XREF: sub_0_333D+20 j
                                loc 0 3399:
3399 DD 70 1F
339C DD 36 OD 08
33AO C9
                                                                             0x1F(ix), b
0xD(ix), #8
                                                              1d
                                                              ld
ret
                                ; End of function sub_0_333D
33A0

33A0

33A1

33A1

33A1

33A1

33A1

33A1

33A1 35 07

33A3 F7

33A4 DD 7E 0F

33A7 FE 59

33A7 FE 59

33A9 DO

33A8 33

33AC C9

33AC C9

33AC
 33A0
                                                             SUBROUTINE
                                sub_0_33A1:
                                                                                                                                                       ; CODE XREF: sub_0_333D+D^p
                                                                            a, #7
0x30
a, 0xF(ix)
#0x59; 'Y
                                                              ld
                                                              rst
ld
                                                                                                                                                       ; return if level bit not set
                                                              ср
                                                                             NC
                                                                             sp
sp
```

ret ; End of function sub_0_33A1

33AC

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
 33AD
33AD 33AD 33AD 33AD 33AD 33AD 5 5 01 5 01 33BC F 01 75 07 33BS E 6 7F 33BA DD 77 07 33BD DD 35 0E 33C0
                                                                                             SUBROUTINE .
                                                   sub_0_33AD:
                                                                                                                                                                                                                                               ; CODE XREF: sub_0_3202+391p
                                                                                                                         a, 0xD(ix) #1
                                                                                                  ld
                                                                                                  cp
jp
ld
                                                                                                                          ; reset hflip
; sprite tile #
                                                                                                  and
                                                                                                  ld
dec
 33C0
33C0 CD 09 34
33C0
33C0
                                                  loc_0_33C0:
                                                                                                                                                                                                                                               ; CODE XREF: 0000:33E4-j
                                                  call sub_0_3409; End of function sub_0_33AD
SUBROUTINE
                                                    sub_0_33C3:
                                                                                                                                                                                                                                               ; CODE XREF: sub_0_3202+A91p
                                                                                                                         a, (level_type)
#1
                                                                                                  ld
                                                                                                  cp
ret
                                                                                                                          NZ
                                                                                                  ld
ld
                                                                                                                         h, 0xE(ix)
1, 0xF(ix)
b, 0xD(ix)
                                                                                                  ld
                                                                                                  call
                                                                                                                          sub 0 2333
                                                                                                  ld
ret
                                                                                                                          0xF(ix), 1
                                                   ; End of function sub_0_33C3
 33D8
33D9
33D9
33D9
                                                                                                                                                                                                                                               ; CODE XREF: sub_0_33AD+5^j
                                                   loc 0 33D9:
 33D9 DD 7E 07
33DC F6 80
33DE DD 77 07
33E1 DD 34 0E
                                                                                                  ld
or
ld
                                                                                                                          a, 7(ix)
#0x80; 'Ç'
7(ix), a
0xE(ix)
                                                                                                                                                                                                                                               ; sprite tile #
; set hflip
inc
                                                                                                  jр
                                                                                                                          loc_0_33C0
                                                                                                  SUBROUTINE
                                                   sub_0_33E7:
                                                                                                                                                                                                                                               ; CODE XREF: sub_0_3202+8F1p
                                                                                                                         sub_0_3409
a, 0xD(ix)
#8
                                                                                                  call
ld
                                                                                                  ср
                                                                                                                          NZ, loc_0_3405
                                                                                                  jp
ld
                                                                                                                          a, 0x14(ix)
                                                                                                  and
jp
ld
                                                                                                                          NZ, loc_0_3401
0x14(ix), #2
                                                                                                  dec
                                                                                                                          0xF(ix)
                                                                                                  ret
3401
3401
3401 DD 35 14
3404 C9
3405
3405
3405
3405 DD 34 OF
                                                   loc_0_3401:
                                                                                                                                                                                                                                               ; CODE XREF: sub_0_33E7+Ffj
                                                                                                                          0x14(ix)
                                                   loc_0_3405:
                                                                                                                                                                                                                                               ; CODE XREF: sub_0_33E7+8 j
3405  
3408   C9  
3408   C9  
3408   3409  
3409   3409  
3409   3409  
3409   DD 7E 15  
3409   DD 7E 15  
3400   C2   28   34  
3410   DD 36   15   02  
3411   DD 36   15   07  
3412   FE   0F  
3412   FE   0F  
3412   EE   02  
3424   DD 77   07  
3427   C9  
3428   3428   3428  
3428   3428   3428  
3428   C9  
34408   C9  
34408   C9  
3428   C9 
                                                                                                                          0xF(ix)
                                                                                                  ret
                                                   ; End of function sub_0_33E7
                                                    ; SUBROUTINE
                                                                                                                                                                                                                                                ; CODE XREF: sub_0_33AD+131p
                                                  sub_0_3409:
                                                                                                                                                                                                                                                ; sub 0 33E71p
                                                                                                  ld
and
                                                                                                                         a, 0x15(ix)
                                                                                                                          a
NZ, loc_0_3428
                                                                                                  jp
ld
inc
ld
                                                                                                                          0x15(ix),
7(ix)
a, 7(ix)
#0xF
                                                                                                                                                                                                                                               ; inc fireball animation
                                                                                                  and
                                                                                                  cp
ret
ld
                                                                                                                                                                                                                                               ; last animation frame?
; no, return
                                                                                                                          #0xF
                                                                                                                         NZ
a, 7(ix)
#2
                                                                                                  xor
                                                                                                                                                                                                                                               ; reset animation frame
                                                                                                  ld
ret
                                                                                                                          7(ix), a
                                                   loc_0_3428:
                                                                                                                                                                                                                                               ; CODE XREF: sub_0_3409+41j
                                                                                                 dec
ret
                                                                                                                          0x15(ix)
342B CD 35 15
342B CB 342B 342B 342C 342C 342C 342C 342C DD 6E 1A 342F DD 66 1B 3432 AF 3433 01 00 00 3436 ED 4A 3438 C2 42 34 343B C2 42 34 343B C2 42 34 3445 DD 36 03 26 3445 3445 7E 3445 7E 3445 7E 3445 FA A
                                                   ; End of function sub_0_3409
                                                                                                SUBROUTINE
                                                   sub_0_342C:
                                                                                                                                                                                                                                               ; CODE XREF: sub_0_32BD+11<sup>p</sup>
                                                                                                  ld
                                                                                                                          1. 0x1A(ix)
                                                                                                  ld
xor
```

h, 0x1B(ix) a bc, #0

NZ, loc_0_3442 hl, #fireball_bounce_data 3(ix), #0x26; '&

; CODE XREF: sub_0_342C+C^j

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

hl, bc

3(ix)

a, (hl)

Z, loc_0_3456

1d ado

ld

inc

ld

cp jp

loc_0_3442:

loc_0_3445:

3446 FE AA 3448 CA 56 34

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
344B DD 77 05
                                                                5(ix), a
                                                   ld
344E 23
344F DD 75 1A
3452 DD 74 1B
3455 C9
                                                   inc
                                                                hl
                                                                0x1A(ix), 1
0x1B(ix), h
                                                   ld
ld
ret
loc_0_3456:
                                                                                                                              ; CODE XREF: sub_0_342C+1C|j
                                                               xor
                                                   ld
ld
ld
ld
                                                   ld
ld
ld
                                                   ld
                                                   1d
                                                   ret
                          ; End of function sub_0_3420
                                 SUBROUTINE
                                                                                                                              ; CODE XREF: sub_0_32BD+15 p
                          sub_0_3478:
                                                   ld
                                                                1, 0x1A(ix)
                                                   14
                                                               h. 0x1B(ix)
                                                   xor
ld
adc
                                                               a
bc, #0
                                                                hl, bc
                                                   jp
ld
ld
bit
                                                                NZ, loc 0 349A
                                                                    #cement_fireball_data
(mario_y_coord)
                                                                hl,
                                                                a,
7.
                                                               7, a
Z, loc_0_34A8
                                                   jp
ld
ld
                                                                0xD(ix), #1
3(ix), #0x7E; '~'
                                                                                                                              ; CODE XREF: sub_0_3478+C<sup>†</sup>j; sub_0_3478+38<sup>†</sup>j
                          loc_0_349A:
                                                               a, 0xD(ix)
#1
                                                   ld
                                                   cp
jp
inc
349F C2 B3 34
34A2 DD 34 03
34A5 C3 45 34
                                                                NZ, loc_0_34B3
3(ix)
                                                                loc_0_3445
                                                   jр
34A8
34A8
34A8
34A8 DD 36 OD 02
34AC DD 36 O3 80
34BO C3 9A 34
34B3
                          loc_0_34A8:
                                                                                                                             ; CODE XREF: sub_0_3478+17 j
                                                                0xD(ix), #2
3(ix), #0x80; 'Ç'
loc_0_349A
                                                   ld
                                                   ld
                                                   jp
34B3
34B3
34B3 DD 35 03
34B6 C3 45 34
                          loc_0_34B3:
                                                                                                                              ; CODE XREF: sub_0_3478+27 j
                                                                3(ix)
loc_0_3445
34B6 C3 45 34
34B6
34B9
34B9
34B9
34B9
34B9
34B9
34B9 3A 27 62
34BC FE 03
34BE C8
34BF 3A 03 62
34C2 CB 7F
34C4 C2 ED 34
34CA 34CA
                                                   jр
                           ; End of function sub_0_3478
                                                SUBROUTINE
                           sub_0_34B9:
                                                                                                                              ; CODE XREF: sub_0_32BD+D^p
                                                               a, (level_type)
#3
                                                   ld
                                                   cp
ret
ld
                                                               a, (mario_y_coord)
7, a
                                                   bit
                                                               NZ, loc_0_34ED
hl, #rivet_fireball_data
34CA
34CA 06 00
34CC 3A 19 60
34CF E6 06
                          loc_0_34CA:
                                                                                                                             ; CODE XREF: sub 0 34B9+37-1
                                                   ld
ld
                                                               b, #0
a, (random_no+1)
#6
34CF E6 06
34D1 4F
34D2 09
34D3 7E
34D4 DD 77 05
34D7 DD 77 0E
34D8 7E
34DB 7E
34DB DD 77 0F
34E2 AF
34E2 AF
34E3 DD 77 18
34E9 DD 77 18
34EC C9
34ED S34EB
                                                   and
                                                   ld
add
ld
ld
                                                               c, a
hl, bc
a, (hl)
                                                                a, (hl
3(ix),
                                                               0xE(ix), a
hl
a, (hl)
                                                   ld
inc
                                                                a, (hl)
5(ix), a
0xF(ix), a
                                                   ld
                                                   ld
xor
                                                               a
0xD(ix), a
0x18(ix), a
0x1C(ix), a
                                                   ld
ld
                                                   ld
                                                   ret
34ED
34ED
34ED 21 D4 3A
34F0 C3 CA 34
                          loc_0_34ED:
                                                                                                                              ; CODE XREF: sub_0_34B9+B^j
                                                               hl, #rivet_fireball_start_points
loc_0_34CA
                                                   ld
jp loc_
; End of function sub_0_34B9
                                                SUBROUTINE
                                                                                                                                CODE XREF: sub_0_30ED+91p
                          sub 0 34F3:
                                                                                                                                 fireball character data
                                                   ld
                                                                hl, #unk_0_6400
                                                   ld
ld
                                                               de, #soft_sprite_ram+0xD0
b, #5
                                                                                                                                fireballs in sprite ram
5 fireballs (max)
                                                                                                                              ; CODE XREF: sub 0 34F3+28-i
                          loc 0 34FB:
                                                   ld
and
                                                               a, (hl)
                                                               a
Z, loc_0_351E
34FC A7
34FD CA 1E 35
3500 2C
3501 2C
3502 2C
                                                   jp
inc
inc
inc
```

a, (hl) (de), a ; fireball X coordinate

1d

ld

3503 7E 3504 12

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
   3505 3E 04
                                                                                                                                                                                                                       a, #4
                                                                                                                                                                                                                      a, 1
1, a
   3507
                        85
6F
1C
7E
12
2C
1C
7E
12
2D
2D
                                                                                                                                                                             add
  3508
3509
350A
                                                                                                                                                                            ld
inc
ld
                                                                                                                                                                                                                                     (hl)
                                                                                                                                                                                                                                                                                                                                                                                                                                       ; fireball sprite tile #
  350B
350C
350D
350E
                                                                                                                                                                                                                       (de), a
                                                                                                                                                                             ld
                                                                                                                                                                             inc
inc
ld
                                                                                                                                                                                                                                                                                                                                                                                                                                      ; fireball palette
                                                                                                                                                                                                                                       (hl)
350F 12
3510 2D
3511 2D
3512 2D
3513 1C
3514 7E
3515 12
3516 13
3517 3E 1B
3517 3E 1B
3519 85
3518 10 DE
351B 10 DE
351B 2D DE
351E
351E 3E 05
351E 3E 05
3520 85
3520 85
3520 85
3521 6F
3522 3E 04
                                                                                                                                                                                                                        (de), a
                                                                                                                                                                             ld
                                                                                                                                                                            dec
dec
dec
                                                                                                                                                                             inc
                                                                                                                                                                                                                      e
a, (hl)
(de), a
                                                                                                                                                                             ld
ld
                                                                                                                                                                                                                                                                                                                                                                                                                                       ; fireball Y coord
                                                                                                                                                                             inc
                                                                                                                                                                                                                       de
                                                                                         loc_0_3517:
                                                                                                                                                                                                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_34F3+33|j
                                                                                                                                                                             ld
                                                                                                                                                                                                                       a, #0x1B
                                                                                                                                                                             add
                                                                                                                                                                                                                       a, 1
1, a
                                                                                                                                                                             1d
                                                                                                                                                                             djnz
                                                                                                                                                                                                                        loc_0_34FB
                                                                                                                                                                            ret
                                                                                                                                                                                                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_34F3+A1j
                                                                                         loc_0_351E:
                        3E 05
85
6F
3E 04
83
5F
                                                                                                                                                                                                                    a, #5
a, 1
1, a
a, #4
a, e
                                                                                                                                                                             ld
                                                                                                                                                                             add
                                                                                                                                                                             ld
ld
                                                                                                                                                                             add
                                                                                                                                                                                                                      e, a
loc_0_3517
  3525 5F
3526 C3 17 35
3526
3526
                                                                                                                                                                             1d
                                                                                                                                                                                jp
                                                                                          ; End of function sub_0_34F3
  3526
3529 00 00 00
3529
                                                                                         Bonus_Points_Tbl:.db 0, 0, 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                 DATA XREF: add_bonus_and_update_high_score+9\daggeroup
  352C 00 01 00
352F 00 02 00
                                                                                                                                                                                                                                                                                                                                                                                                                                                 0 pts
100 pts
                                                                                                                                                                              .db 0.
                        00 01 00
00 02 00
00 03 00
00 04 00
00 05 00
00 06 00
00 07 00
00 08 00
                                                                                                                                                                                                0, 1, 0
0, 2, 0
0, 3, 0
0, 4, 0
0, 5, 0
0, 6, 0
0, 7, 0
0, 8, 0
                                                                                                                                                                              .db
                                                                                                                                                                                                                                                                                                                                                                                                                                                 200 pts
300 pts
  3532
3535
3538
                                                                                                                                                                                                                                                                                                                                                                                                                                                   400 pts
                                                                                                                                                                                .db
                                                                                                                                                                                                                                                                                                                                                                                                                                                 500 pts
600 pts
700 pts
                                                                                                                                                                                .db 0,
                                                                                                                                                                              .db
   3541
3544
3547
354A
                                                                                                                                                                              .db
                                                                                                                                                                                                                                                                                                                                                                                                                                                   800 pts
                        00 08 00
00 09 00
00 00 00
00 10 00
00 20 00
00 30 00
00 40 00
00 50 00
                                                                                                                                                                                                                                                                                                                                                                                                                                                 900 pts
0 pts
1000 pts
                                                                                                                                                                                dh
                                                                                                                                                                              .db
                                                                                                                                                                                               0, 0, 0

0, 0x10, 0

0, 0x20, 0

0, 0x30, 0

0, 0x50, 0

0, 0x60, 0

0, 0x70, 0

0, 0x90, 0
   354D
                                                                                                                                                                                .db 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000 pts
   3550
3553
3556
                                                                                                                                                                              .db
.db
                                                                                                                                                                                                                                                                                                                                                                                                                                                  3000 pts
4000 pts
5000 pts
.db
                                                                                                                                                                                                                                                                                                                                                                                                                                                  6000 pts
                                                                                                                                                                                                                                                                                                                                                                                                                                                  7000 pts
8000 pts
9000 pts
                                                                                                                                                                              .db
                                                                                                                                                                                .db
                                                                                                                                                                             dw VRAM_start+0x394
db 1, 0x23, 0x24, 0x10, 0x10, 0, 0, 7, 6, 5, 0, db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x00, 0x10, 0
                                                                                        high_score_tbl:
                                                                                                                                                                                                                                                                                                                                                                                                                                                 DATA XREF: read_dips_and_high_score_tbl+53<sup>o</sup>
                                                                                                                                                                                                                                                                                                                                                                                                                           0, 0x10
0x10, 0x10
                                                                                                                                                                                .dw VRAM_start+0x2F4
                                                                                                                                                                            .dw VRAM_start+0x2F4
.dw VRAM_start+0x396
.db 2, 0x1E, 0x14, 0x10, 0x10, 0, 0, 6, 1, 0, 0, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x3F, 0, 0, 0x61, 0
.dw VRAM_start+0x2F6
.dw VRAM_start+0x298
.db 3, 0x22, 0x14, 0x10, 0x10, 0, 5, 9, 5, 0, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
.dw VRAM_start+0x2F8
.dw VRAM_start+0x39A
                                                                                                                                                                             .dw VRAM_start+0x39A
.db 4, 0x24, 0x18, 0x10, 0x10, 0, 0, 5, 0, 5, 0, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10, 0x10
.db 0x10, 0x10, 0x10, 0x10, 0x35, 0, 0x50, 0x50, 0
35CD 00 05 00 10+
35EB FA 76
35ED 9C 77
35EF 05 24 18 10+
35EF 00 00 04+
35EF 03 00 00 10+
360D FC 76
360F 3B 5C 4B 5C+letter_coords:
360F 5B 5C 6B 5C+
360F 5B 5C 6B 5C+
360F BB 5C AB 5C+
360F BB 5C AB 5C+
360F BB 6C AB 6C+
360F 7B 6C 8B 6C+
364B 8B 36 message_table:
364D 01 00
                                                                                                                                                                           .db 0x10, 0x10, 0x10, 0x10, 0x3F, 0, 0x5U, 0x10, 0x10,
                                                                                                                                                                             .db 0x5C, 0x8B,
.db 0xCB, 0x5C,
.db 0x6C, 0x7B,
.db 0xBB, 0x6C,
.db 0x7C, 0x6B,
.db 0xAB, 0x7C,
                                                                                                                                                                                                                                                                                                                            0x5C, 0xAB,
0x4B, 0x6C,
0x6C, 0x9B,
0x3B, 0x7C,
0x7C, 0x8B,
                                                                                                                                                                                                                                                                                                                                                                                            0x5C, 0xBB, 0x5C
0x5B, 0x6C, 0x6B
                                                                                                                                                                                                                                                                                             0x9B,
0x6C,
0x8B,
0x6C,
                                                                                                                                                                                                                                                              0x5C, 0x9B,
0x3B, 0x6C,
0x6C, 0x8B,
0xCB, 0x6C,
0x7C, 0x7B,
0xBB, 0x7C,
                                                                                                                                                                                                                                                                                                                                                                                            0x5C,
0x5B,
0x6C,
0x4B,
                                                                                                                                                                                                                                                                                                                                                                                                                           0xAB, 0x7C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                            0x60
                                                                                                                                                                                                                                                                                                                                                            0x8B
0x7C
                                                                                                                                                                                                                                                                                                                                                                                                                            0x9B.
                                                                                                                                                                                                                                                                                                                                                                                                                                        ; DATA XREF: print_message_Afo
                                                                                                                                                                             .dw aGAME_OVER
  364D 01 00
364F 98 36
3651 A5 36
3653 B2 36
                                                                                                                                                                              .dw 1
.dw aPLAYER
.dw aPLAYER_
.dw aHIGH_SCORE
 3655 BF 37
                                                                                                                                                                              .dw aCREDIT
                                                                                                                                                                              .dw aHOW_HIGH_CAN_YOU_GET
                                                                                                                                                                              .dw 8
                                                                                                                                                                             .dw aONLY_1_PLAYER_BUTTON
.dw a1_OR_2_PLAYERS
                                                                                                                                                                              .dw 0xE
                                                                                                                                                                              .dw aPUSH
                                                                                                                                                                             .dw aNAME_REGISTRATION
.dw aNAME
                                                                                                                                                                              .dw aDASHDASHDASH
                                                                                                                                                                              .dw aA_B_C_D_E_F_G_H_I_J
.dw aK_L_M_N_O_P_Q_R_S_T
.dw aU_V_W_X_Y_Z_rub_end
.dw aREGI_TIME
  366D
366F
3671
3673
3675
3677
                          5D
73
8B
                          00 61
22 61
44 61
                                                                                                                                                                             .dw high_score_tbl_ram
.dw hs_tbl_2nd
.dw hs_tbl_3rd
```

.dw hs_tbl_4th .dw hs_tbl_5th

3679 66 61 367B 88 61

.db 0, 0x70, 8, 0x48

.db 0, 0x70, 8, 0x48 .db 0x53, 0x36, 8, 0x50 .db 0x63, 0x37, 8, 0x50 .db 0x68, 0x31, 8, 0x41 .db 0, 0x70, 8, 0x48 .db 0x6A, 0x14, 0xA, 0x48

389C 00

38A0 53 36 08 50 38A4 63 37 08 50 38A8 6B 31 08 41 00 70 08 48 38B0 6A 14 0A 48

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
   38B4 FD FD FD FD+dk_intro_jump_up_data:.db 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFE,
                                                                                                                                                                                                                                                                                                       DATA XREF: 0000:0AA910
    38B4 FD FD FD FE+
   3884 FE FE FE FE + .db 0xFE, 0xFE, 0xFE, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0 a884 FE FF FF FF FF+dk_intro_jump_across_data:.db 0xFF, 0xF
                                                                                                                                                                                                                                                                                           0xFF, 0, 0, 1, 0
; DATA XREF: 0000:0AAF†o
; 0000:0B86†o
   38CB FF
                             00 FF 00+
    38CB 00 01 00 01+
   38CB
38DC
                                                   01+ .db 1, 1, 1, 1, 1, 0x7F
10+draw_data_bend_girders_2:.db 4, 0x7F, 0xF0, 0x10, 0xF0, 2, 0xDF, 0xF2, 0x70, 0xF0
                              7F F0
                                                                                                                                                                                                                                                                                                 ; DATA XREF: 0000:0B91†o
   38DC F0 02 DF F2+
                                                                                                                     db 2, 0x6F, 0xF8, 0x10, 0xF8, 0xAA, 4, 0xDF, 0xD0, 0x90 db 0xD0, 2, 0xDF, 0xDC, 0x20, 0xD1, 0xAA, 0xFF, 0xFF db 0xFF, 0xFF, 4, 0xDF, 0xA8, 0x20, 0xA8, 4, 0x5F db 0xB0, 0x20, 0xB0, 2, 0xDF, 0xB0, 0x20, 0xBB, 0xAA db 4, 0xDF, 0x88, 0x30, 0x88, 4, 0xDF, 0xB0, 0x20, 0xBC, 0x20, 0xBF, 0xAA, 4, 0xBF, 0x68, 0x20
                   70 F8 02 6F+
F8 10 F8 AA+
04 DF D0 90+
   38DC
  38DC
38DC
   38DC D0 02 DF DC+
38DC 20 D1 AA FF+
   38DC 20 D1 AA FF+
38DC FF FF FF FF+
38DC 04 DF A8 20+
                                       FF FF+ .db 2, UXDF, UX3A, UX2F, UX3A, UX2F, UX3A, UX2F, UX3A, UX3F, UX70, 0x20, 0x70, 2, 0xDF, 0x6E, 0x20

5F B0+ .db 0x79, 0xAA

58 A0+draw_data_bend_girders_1:.db 2, 0xDF, 0x58, 0xA0, 0x55, 0xAA ; DATA_XREF: 0000:0B48

08 44+dk_throw_barrel_spr:.db 0, 0x70, 8, 0x44, 0x2B, 0xAC, 8, 0x4C, 0x3B, 0xAE ; DATA_XREF: 0000:1671

10 A02
  38DC A8 04
   392C
3932
  3932 00 70 08 44+dk_throw_parrer_spr.cm...

3932 28 AC 08 4C+

; sub_0_2C8F+95[0]

3932 38 AF 08 4C+

; sub_0_2C8F+95[0]

3932 38 AF 08 3C+

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

3932 4B BD 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 0x44, 0, 0x70, 8, 0x44, 0x3B, 0x25, 8, 0x4C

3932 00 70 08 44+

.db 0x3C, 0x4B, 0x2B, 0x3B, 0x22, 7, 0x3C, 0x4B, 0x2A

3932 00 70 08 44+

.db 8, 0x3C, 0x4B, 0x2B, 8, 0x4C, 0x3B, 0x2A, 8, 0x3C

3932 00 70 0x 44+

.db 0x2B, 0xAB, 8, 0x4C, 0x3B, 0x2B, 0x2B, 8, 0x4C, 0x3B, 0x2B, 0x2C

3932 00 70 0x 44+

.db 0x2B, 0xAB, 8, 0x4C, 0x3B, 0x2E, 8, 0x4C, 0x3B, 0x2B, 0x2B, 0x2D, 8

3932 47 27 0x 4C+

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

3932 0x70, 0x 44+

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

3932 0x70, 0x 44+

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

3932 0x70, 0x 44+

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

3932 0x70, 0x 44+

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

3934 FE FE FF FF

; DATA XREF: sub_0

; sub_0_2E04+C4|0

; sub_0_2E04+C4|0
                                                                                                                                                                                                                                                                                                                                              sub_0_2E04+98↑o
                                                                                                                                                                                                                                                                                                   ; sub_0_2E04+04+0
3, 0x7F
, 0x4E, 0x7F
; DATA XREF: sub_0_2C8F+FD10;
; DATA XREF: sub_0_2C8F+F410;
; DATA XREF: animate_kong_and_pauline+4310
  39AA 00 01 00 01+ ...db 0, 0xFF, 0, 0, 1, 0, 1, 1, 2, 2, 2, 2, 3, 3, 39C3 1E 4E BB 4C+barell_rolling_data:.db 0x1E, 0x4E, 0xBB, 0x4C, 0xD8, 0x4E, 0x59, 39CC BB 4D 7F barrel_falling_data:.db 0xBB, 0x4D, 0x7F ;
    39CF 47 27 08 50 dk_thrash_right_spr:.db 0x47, 0x27, 8, 0x50
   39CF
39D3 2D 26 08 50
                                                                                                                      .db 0x2D, 0x26, 8, 0x50
.db 0x3B, 0x25, 8, 0x50
.db 0, 0x70, 8, 0x48
.db 0x3B, 0x24, 7, 0x40
.db 0x4B, 0x28, 8, 0x40
                  3B 25 08 50
00 70 08 48
3B 24 07 40
   39D7
; DATA XREF: animate_kong_and_pauline+4A1o
  .db 0xFE, 0xFE, 0xFE, 0xFE, 0xFE, 0xFE, 0xFE, 0xFF, 0xFF, 0xFF, 0xDA
3A8C E8 E5 E3 E2+fireball_bounce_data:.db 0xE8, 0xE5, 0xE3, 0xE2, 0xE1, 0xE0, 0xDF, 0xDE, 0xDD
3A8C E1 E0 DF DE+
.db 0xDD, 0xDC, 0xDC, 0xDC, 0xDC, 0xDC, 0xDC, 0xDD, 0xDD, 0xDD
                                                                                                                     .db 0xDD, 0xDC, 0xDC, 0xDC, 0xDC, 0xDC, 0xDC, 0xDC, 0xDD, 0xDD
.db 0xDE, 0xDF, 0xE0, 0xE1, 0xE2, 0xE3, 0xE4, 0xE5, 0xE7
.db 0xE9, 0xEB, 0xED, 0xF0, 0xAA
   388C DC DC DC DC+ .db 0xDE, 0xDF, 0xED, 0xED, 0xEZ, 0xE3, 0xE4, 0xE5, 0xE7
388C DD DD DE DF+ .db 0xE9, 0xEB, 0xED, 0xF0, 0xAA
38AC 80 7B 78 76+cement_fireball_data:.db 0x80, 0x78, 0x78, 0x76, 0x74, 0x73, 0x72, 0x71,
38AC 74 73 72 71+ ; DATA X
                                                                                                                                                                                                                                                                                                 ; DATA XREF: sub 0 3478+F10
  3AAC 70 70 6F 6F+ ...db 0x70, 0x6F, 0x6F, 0x6F, 0x70, 0x70, 0x71, 0x72, 0x73
3AAC 6F 70 70 71+ ...db 0x74, 0x75, 0x76, 0x77, 0x78, 0xAA
3AC4 EE F0 DB A0+rivet_fireball_data:.db 0xEE, 0xF0, 0xDB, 0xA0, 0xE6, 0xC8, 0xD6, 0x78, 0xEB
  3AC4 E6 C8 D6 78+

3AC4 EB F0 DB A0+

3AD4 1B C8 23 A0+rivet_fireba:

3AD4 2B 78 12 F0+
                                                  78+ .db 0xF0, 0xDB, 0xA0, 0xE6, 0xC8, 0xE6, 0xC8
A0+rivet_fireball_start_points:.db 0x1B, 0xC8, 0x23, 0xA0, 0x2B, 0x78, 0x12, 0xF0, 0x1B

; DATA XREF: sub_0_34E9+34|o
  3AD4 2B 78 12 F0+
3AD4 1B C8 23 AO+
3AE4 02 97 38 68+barrel_level_tilemap_data:.db 2, 0x97, 0x38, 0x68, 0x38, 2, 0x9F, 0x54, 0x10, 0x54
3AE4 38 02 9F 54+
; DATA XREF: 0000:
; sub_0_2441+19|0
  3AE4 58 AO 55 02+
3AE4 EF 6D 20 79+
3AE4 02 DF 9A 10+
3AE4 8E 02 EF AF+
                                                                                                                      .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
                                                                                                                                                                                         0, 0xF8, 0,
0xCB, 0xB1,
0x63, 0x54,
                                                                                                                                                                                                                                   0xCB, 0x57, 0xCB, 0x6F
0, 0xCB, 0xDB, 0xCB, 0xF3
1, 0x63, 0xD5, 0x63, 0xF8
                                                                                                                                                                    0xF8.
                                                                                                                       .db 2. 0x7F.
  3AE4 0E 02 EF AF+
3AE4 20 BB 02 DF+
3AE4 DC 10 D0 02+
3AE4 FF F0 80 F7+
                                                                                                                       .db
```

.db

.db

.db

.db

.db

3AE4 02

3B5D

3AE4 F8 00 CB 3AE4 CB 6F 00

3AE4 99 CB B1

7F F8 00+

70 98 06 8F+

3B5D A0 70 A0 00+

00+

0x33,

0x53.

0x78,

0x18

0x33,

0x53

0x76, 0x5B, 0x95, 0x83,

38E4 CB DB CB F3+ ...db 0x8A 38E5D 06 8F 90 70+cement_pie_level_tilemap_data:.db 6, 0x8F, 0x90, 0x70, 0x90, 6, 0x8F, 0x98, 0x70, 0x98 38E5D 90 06 8F 98+ ; DATA XREF: 0000:0CDF10

0x90, 0,

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

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

0x33, 0xBA, 0x33,

0xB8

sub 0 2441+2010

0x54, 1, 0x53, 0x92, 0x53, 0x92, 0, 0x73, 0xB6, 0x73, 0xB5, 0, 0x93, 0x38, 0x93,

VRAM_start+0x28F

.dw

3D69 8F 76

3D6B 05

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
                                                                                  .dw VRAM_start+0x26F
 3D6E 01
                                                                                    .db
 3D6F 4F 76
3D71 01
3D72 53 76
                                                                                  .dw VRAM_start+0x24F
                                                                                    .dw VRAM_start+0x253
 3D74 05
                                                                                   .db 5
 3D74 03
3D75 2F 76
3D77 05
3D78 EF 75
                                                                                    .dw VRAM_start+0x22F
                                                                                  .dw VRAM_start+0x1EF
 3D7A 02
                                                                                   .db
 3D7B D0 75
                                                                                  .dw VRAM_start+0x1D0
.db 2
 3D7B B0 75
3D7D 02
3D7E B1 75
                                                                                   .dw VRAM_start+0x1B1
 3D80 05
3D81 8F 75
3D83 03
                                                                                   .db
                                                                                  .dw VRAM_start+0x18F
.db 3
  3D84 50 75
                                                                                   .dw VRAM start+0x150
 3D86 05
3D87 2F 75
3D89 01
3D8A 0F 75
                                                                                  .db 5
.dw VRAM_start+0x12F
                                                                                   .db
                                                                                    .dw VRAM start+0x10F
 3D8C 01
3D8D 13 75
3D8F 01
                                                                                    .db
                                                                                   .dw VRAM_start+0x113
                                                                                   .db
 3D90 EF 74
                                                                                   .dw VRAM_start+0xEF
  3D92 01
3D93 F1 74
                                                                                  .db 1
.dw VRAM_start+0xF1
 3D95
  3D95 01
3D96 F3 74
                                                                                   .db
                                                                                    .dw VRAM_start+0xF3
  3D98 02
3D99 D1 74
                                                                                   .db
3D9C 01 11 00 00+
3D9C 00 10 DB 68+
.db 1, 0x40, 0, 0, 8, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0
3D9C 01 40 00 00+
.db 0, 0, 0, 0, 0x80, 1, 0xC0, 0xFF, 1, 0xFF, 0x34
3D9C 08 01 01 01+
.db 0xC3, 0x39, 0, 0x67, 0x80, 0x69, 0x14, 1, 0, 0, 0
3D9C 1E 18 0B 4B+top_barrel_spr: .db 0x1E, 0x18, 0xB, 0x4B, 0x14, 0x18, 0xB, 0x4B, 0x1E
3DDC 1E 18 0B 4B+
...
                                                                                                                                                                                                          ; DATA XREF: 0000:0FD710
 3DDC 1E 18 0B 3B+ .db 0x18, 0xB, 0x3B, 0x14, 0x18, 0xB, 0x3B
3DEC 3D 01 03 02 fireball_spr: .db 0x3D, 1, 3, 2
                                                                                                                                                                                                              DATA XREF: 0000:0FE210
0000:101F<sup>†</sup>o ...
DATA XREF: 0000:1131<sup>†</sup>o
3E24 E7 D0 00 5C+Cemment_Conveyer_spr..db 0x17, 0x30, 0, 0x35, 0x8, 0x85, 0x85
 3E64 77 A4 77 D8
3E70
3E70
                                                                                 .db 0xA4, 0x77, 0xD8
 3E70
3E70 11 01 00
3E73
3E73
                                         loc_0_3E70:
                                                                                                                                                                                                         ; CODE XREF: sub 0 1DBD+1A j
                                                                                 ld
                                                                                                     de, #1
                                          loc 0 3E73:
 3E73 06 7B
3E75 1F
                                                                                 1d
                                                                                                     b, #0x7B; '{'
                                                                                  rra
  3E76 D2 28 1E
                                                                                                      NC, loc_0_1E28
                                                                                  jp
ld
 3E79 1E 03
3E7B 06 7D
3E7D 1F
                                                                                  ld
rra
                                                                                                      b, #0x7D; '}'
 3E7D 1F
3E7E D2 28 1E
                                                                                                      NC, loc_0_1E28
                                                                                  jp
ld
 3E81 1E 05
3E83 06 7F
3E85 C3 28 1E
                                                                                                      e, #5
b. #0x7F; ''
                                                                                                     b, #0x7F;
loc_0_1E28
                                                                                  ld
jp
 3E88
3E88
                                                                                 SUBROUTINE
 3E88
3E88
                                          sub_0_3E88:
                                                                                                                                                                                                          ; CODE XREF: sub_0_2853+18 p
 3E88
                                                                                                     a, (level_type)
hl
 3E88 3A 27 62
                                                                                  1d
 3E8B E5
3E8C EF
3E8C
                                                                                  push
                                                                                                      0x28
                                                                                                                                                                                                          ; qo!
                                                                                  rst
 3E8D 00 00
3E8F 99 3E
3E91 B0 28
                                                                                                                                                                                                         ; Jump table
                                                                                  .dw loc_0_3E99
.dw l2_check_hammer_hit
.dw l3_check_hammer_hit
 3E93 E0 28
 3E95 E0 20
3E95 01 29
3E97 00 00
3E99
                                                                                  .dw 14_check_hammer_hit
 3E99
 3E99
3E99 E1
                                          loc_0_3E99:
                                                                                                                                                                                                          ; DATA XREF: sub_0_3E88+7↑o
                                                                                  pop
3E9B AF
3E9B 06 0A
3E9C 06 0A
3EA0 11 20 00
3EA3 DD 21 00 67
3EA7 CD C3 3E
3EAA 06 05
3EAC DD 21 00 64
3EBC DD 21 00 64
 3E9A AF
                                                                                  xor
ld
                                                                                                      a
(unk_0_6060), a
                                                                                  ld
ld
                                                                                                      b, #0xA
de, #0x20;
```

ix, #unk 0 6700

sub_0_3EC3 b, #5 ix, #unk_0_6400

sub 0 3EC3 a, (unk_0_6060) ; fireball character data

ld call ld

ld call ld

3EB3 3A 60 60

```
File: E:\Projects\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 2/12/2013, 10:42:49 PM
 3EB6 A7
 3EB7 C8
                                             ret
3EB8 FE 01
3EBA C8
3EBB FE 03
3EBD 3E 03
                                             cp
ret
                                                        #1
                                             cp
ld
                                                        a, #3
C
3EBF D8
3EC0 3E 07
3EC2 C9
                                             ret
                                             ld
                                             ret
3EC2
3EC2
3EC3
3EC3
                       ; End of function sub 0 3E88
                                           SUBROUTINE
3EC3
3EC3
3EC3
3EC3 DD CB 00 46
                                                                                                              ; CODE XREF: sub_0_3E88+1F<sup>p</sup>; sub_0_3E88+28<sup>p</sup>...
                       sub_0_3EC3:
0, 0(ix)
Z, loc_0_3EFA
                                             bit
                                             jp
ld
                                                        a, c
5(ix)
                                             sub
3ECE DD 90 03
3ECE D2 D3 3E
3ED1 ED 44
3ED3
                                                        NC, loc_0_3ED3
                                             neg
3ED3
3ED3
3ED3 3C
3ED4 95
3ED5 DA DE 3E
3ED8 DD 96 0A
                                                                                                              ; CODE XREF: sub 0 3EC3+B1i
                       loc_0_3ED3:
                                             sub
                                                        C, loc_0_3EDE
0xA(ix)
NC, loc_0_3EFA
                                             qŗ
                                             sub
3EDB D2 FA 3E
3EDE
                                             jp
                                                                                                              ; CODE XREF: sub_0_3EC3+12 j
                       loc_0_3EDE:
3EDE
3EDE FD 7E 03
3EE1 DD 96 03
3EE4 D2 E9 3E
3EE7 ED 44
                                                        a, 3(iy)
3(ix)
NC, loc_0_3EE9
                                             1d
                                             sub
                                             jр
                                             neg
3EE9
3EE9
3EE9 94
                        loc_0_3EE9:
                                                                                                              ; CODE XREF: sub_0_3EC3+21 j
                                             sub
3EEA DA F3 3E
                                             jp
sub
jp
                                                        C, loc_0_3EF3
9(ix)
NC, loc_0_3EFA
                                                           loc 0 3EF3
3EED DD 96 09
3EF0 D2 FA 3E
3EF3
3EF3
3EF3 3A 60 60
3EF6 3C
                                                                                                              ; CODE XREF: sub 0 3EC3+271i
                       loc 0 3EF3:
                                             ld
                                                        a, (unk_0_6060)
3EF6 3C
3EF7 32 60 60
3EFA
3EFA DD 19
                                                        (unk_0_6060), a
                                             ld
                       loc_0_3EFA:
                                                                                                               ; CODE XREF: sub_0_3EC3+4<sup>†</sup>j
; sub_0_3EC3+18<sup>†</sup>j ...
3EFA
3EFC 10 C5
3EFE C9
3EFE
                                                        ix, de
                                             add
                                             djnz
ret
                                                        sub_0_3EC3
                       ; End of function sub_0_3EC3
3EFE
3EFE
3EFF
3F00
                       aCOPYRIGHT_1981:.dw VRAM_start+0x25C
                                                                                                              ; DATA XREF: 0000:36871o
                                             :.dw VRAM_start+0x2bC
.db 0x49, 0x4A, 1, 9, 8, 1, 0x3F
SERICA_INC:.dw VRAM_start+0x37D
.db 0x1E, 0x19, 0x1E, 0x24, 0x15, 0x1E, 0x14, 0x1F, 0x10
. DATA XREF: sub_0_2441\rangle or color of color ox12, 0x12, 0x12
                                            .db 0x1F, 0x16, 0x10, 0x11, 0x1D, 0x15, 0x22, 0x19, 0x13
.db 0x11, 0x10, 0x19, 0x1E, 0x13, 0x2B, 0x3F
                                           SUBROUTINE
                                                                                                              ; CODE XREF: 0000:081C↑p
                                                        hl, #VRAM start+0xAF
                                                        de, #0xFFE0
(h1), #0x9F; 'f'
h1, de
                                                        (hl), #0x9E ; 'x'
                       ; End of function sub_0_3F24
3FA0
3FA0
3FA0 CD A6 3F
3FA3 C3 5F 0D
3FA6
3FA6
3FA6
3FA6
 3FA0
                       loc_0_3FA0:
                                                                                                               ; CODE XREF: 0000:0CD1<sup>†</sup>j
                                             call
                                                        sub 0 3FA6
                                             jp
                                                        loc_0_D5F
                                            SUBROUTINE
3FA6
3FA6 3E 02
3FA8 F7
3FA9 06 02
3FAB 21 6C 77
3FAE
3FAE 26 10
                       sub_0_3FA6:
                                                                                                              ; CODE XREF: 0000:3FA01p
                                                        a, #2
0x30
                                             ld
                                                                                                              ; return if level bit not set
                                             rst
                                                        b, #2
hl, #VRAM_start+0x36C
                                             1d
                                                                                                              ; CODE XREF: sub_0_3FA6+11|j
                       loc 0 3FAE:
3FAE 36 10
3FBO 23
3FB1 23
                                             ld
                                                        (hl), #0x10
                                             inc
                                                        hl
hl
                                                        (hl), #0xC0 ; 'L'
3FB2 36 C0
3FB4 21 8C 74
3FB7 10 F5
3FB9 C9
                                             1d
                                                        hl, #VRAM_start+0x8C
loc_0_3FAE
                                             1d
                                             djnz
                                             ret
3FB9
3FB9
3FB9
                       ; End of function sub 0 3FA6
 3FBA 00 00 00 00+
                                             .db 0, 0, 0, 0, 0, 0
SUBROUTINE
                       sub_0_3FC0:
                                                                                                              ; CODE XREF: 0000:2285 p
                                                        hl, #soft_sprite_ram+0x4D
(hl), #3
                                             ld
```

inc

1

```
3FC7 C9
                                                                      ret
                                    ; End of function sub_0_3FC0
3FC7

3FC7

3FC7

3FC8 00 00 41 7F+

3FC8 7F 41 00 00+

3FC8 00 7F 7F 18+

3FC8 00 00 7F 7F+

3FC8 00 00 7F 7F+

3FC8 49 49 49 41+

3FC8 00 1C 3E 63+x

3FC8 41 49 79 79+

6000
 3FC7
                                                                      .db 0, 0, 0x41, 0x7F, 0x7F, 0x41, 0, 0, 0, 0x7F, 0x7F

.db 0x18, 0x3C, 0x76, 0x63, 0x41, 0, 0, 0x7F, 0x7F, 0x49

.db 0x49, 0x49, 0x41, 0, 0x1C, 0x3E, 0x63, 0x41, 0x49

.db 0x79, 0x79, 0, 0x7C, 0x7E, 0x13, 0x11, 0x13, 0x7E

.db 0x7C, 0, 0x7F, 0x7F, 0xE, 0x1C, 0xE, 0x7F, 0x7F, 0

.db 0, 0x41, 0x7F, 0x7F, 0x41, 0, 0
                             63+; end of 'ROM'
79+
; Segment type: Regular
; segment 'RAM'
                                                                      .org 0x6000
                                                                                                                                                                            ; DATA XREF: 0000:0268†o
; DATA XREF: display_credits+5†o
; 0000:073f†r ...
                                                                      .ds 1
                                    RAM start:
                                    no_of_credits:
                                                                       .ds
6003 ??
6004 ??
6005 ??
6005
                                   unk_0_6003:
                                                                       .ds
                                                                                                                                                                            ; DATA XREF: sub_0_17B+5\uparrow o
                                                                                                                                                                            ; DATA XREF: 0000:00C6 r ; sub_0_17B+12 r ...
                                   nmi_sequencer:
                                                                      .ds
                                   .ds 1
attract_mode_flag:.ds 1
sixteen_bit_countdown_msb:.ds 1
eight_bit_countdown:.ds 1
6006 ??
6007 ??
6008 ??
6009*??
                                                                                                                                                                            ; DATA XREF: return_NOT_16bit_timeout\u00e10
; DATA XREF: return_NOT_8bit_timeout\u00e10
6009*??
600A ??
600A
                                                                                                                                                                            ; 0000:078Efo ...; DATA XREF: 0000:01EEfw; 0000:06FEfr ...
                                   main_sequencer: .ds 1
600B ??
600C ??
600D ??
600E ??
                                                                      .ds 1
                                   .ds 1
.ds 1
current_player_D:.ds
current_player_E:.ds
600F ??
6010 ??
6010
                                   two_players: .ds 1
controller_in: .ds 1
                                                                                                                                                                            ; DATA XREF: 0000:00AC↑w; 0000:1502↑r ...
6010
6011 ??
6012 ??
6013 ??
6014 ??
6015 ??
                                   last raw in:
                                                                      .ds
                                                                       .ds
          ??
                                                                       .ds
                                                                       .ds
6016 ??
6017 ??
6018 ?? ??
6018
                                                                      .ds
                                   random no:
                                                                      .ds 2
                                                                                                                                                                            ; DATA XREF: rand↑r
                                                                                                                                                                                rand+R1w
6018
601A ??
601A
601B ??
601C ??
601D ??
                                                                                                                                                                               rand+B|w ...
DATA XREF: rand+3|o
0000:00B5|o ...
                                   gen_purpose_timer:.ds 1
                                                                       .ds 1
                                                                      .ds
                                                                       .ds
601F ??
6020 ??
6020
6021 ??
                                                                        .ds
                                   lives_per_game:
                                                                                                                                                                            ; DATA XREF: read_dips_and_high_score_tbl+4\uparrow o
                                                                                                                                                                               0000:09221r ...
DATA XREF: check_and_award_bonus+1E10
                                   bonus_setting: .ds 1
6021 ?? Donus_se
6021
6022 ?? ?? ?? ?? coinage:
6026 ?? upright:
6026
6027 ??
6028 ??
6029 ??
                                                                                                                                                                                 7/10/15/20K
                                                                                                                                                                               DATA XREF: sub_0_17B+27\cdot o
DATA XREF: 0000:0087\cdot r
0000:099F\cdot r ...
                                                                      .ds 1
6028 ??
6029 ??
6022 ??
602B ??
602C ??
602E ??
603C ??
6030 ??
6031 ??
6032 ??
6032 ??
                                                                      .ds
                                                                       .ds
                                                                       dя
                                                                      .ds
.ds
                                                                       .ds
                                                                       .ds
                                                                                                                                                                            ; DATA XREF: 0000:1499<sup>†</sup>0; 0000:14FC<sup>†</sup>0
                                   unk_0_6030:
                                   unk_0_6031:
unk_0_6032:
                                                                       .ds
                                                                                                                                                                           ; DATA XREF: 0000:158A\u00e100; 0000:15B2\u00e1w
                                                                      .ds
                                                                      .ds
6033
6034
6035
6036
6037
6038
6039
                                                                      .ds
.ds
.ds
                                                                                                                                                                            ; DATA XREF: 0000:14DC10
          unk 0 6034:
                                   unk_0_6035:
unk_0_6036:
                                                                       .ds
                                                                       .ds
                                   unk_0_6038:
                                   unk_0_603A:
                                                                       .ds
603B
                                                                       .ds
                                                                       .ds
603E
603F
                                                                       .ds
6040 ??
6040
6040
                                   p1_level_data:
                                                                       .ds
                                                                                                                                                                            ; DATA XREF: 0000:093E o
                                                                                                                                                                            ; 0000:09AB o ...; game init data copied here
6041 ??
6042 ?? ??
6044 ??
6045 ??
                                                                       .ds 1
                                                                      .ds 2
                                                                                                                                                                            ; ptr sequence data
                                                                       .ds
6046 ??
6047 ??
6048 ??
6048
                                                                       .ds
                                                                                                                                                                            ; DATA XREF: 0000:0909\cdot o ; 0000:091F\cdot o ...
                                   p2_level_data:
                                                                      .ds
6049 ??
604A ??
604B ??
604C ??
604E ??
604F ??
6051 ??
6052 ??
6053 ??
6055 ??
                                                                       .ds
                                                                       .ds
                                                                       .ds
                                                                       .ds
                                                                      .ds
.ds
.ds
.ds
                                                                      .ds
.ds
.ds
                                                                       .ds
6058 ??
```

.ds .ds .ds

??+fg_vector_fn_params:.ds 0x40

60BF ??
60C0 ?? ?? ?? ??+fg_vector_fn_params:.ds 0x40
60C0 ?? ?? ?? ??+fg_vector_fn_params:.ds 0x40
61C0 ?? ?? ?? ??+
6100 ?? ?? ?? ??+
6100 ?? ?? ?? ?? ??+
6122 ?? ?? ?? ?? ??+
6122 ?? ?? ?? ?? ??+
6144 ?? ?? ?? ?? ??+
6144 ?? ?? ?? ?? ??+
6166 ?? ?? ?? ?? ??+
6166 ?? ?? ?? ?? ??+
6166 %

```
zero_score_or_high_score+15\u00f10
DATA XREF: 0000:0291\[o\]
queue_fg_vector_fn+1\[o\]
DATA XREF: read_dips_and_high_score_tbl+56\[o\]
0000:3673\[o\]
1st
DATA XREF: 0000:367510
2nd
DATA XREF: 0000:3677†o
DATA XREF: 0000:367910
```

```
6166 ?? ?? ?? ?? + 6188 ?? ?? ?? ?? + 6188 ?? ?? ?? ?? + 6186 ?? 61AA ?? 61AA ?? 61AC ?? 61AC ?? 61AC ?? 61AC ?? 61BE ?? 61BC 
                                                                                                                                                                                                                                                                                                                                                                                                                              DATA XREF: 0000:367B10
                                                                                                                                                                      .ds 0x22
                                                                                                                                                                       .ds
.ds
.ds
                                                                                                                                                                       .ds
.ds
.ds
                                                                                                                                                                       .ds
.ds
.ds
                                                                                                                                                                                                                                                                                                                                                                                                                    ; DATA XREF: sub_0_13CA+D o
                                                                                                                                                                       ; DATA XREF: sub_0_13CA<sup>†</sup>o
; DATA XREF: sub_0_13CA+2F<sup>†</sup>o
                                                                                                                                                                       .ds
  61FD ??
61FE ??
61FF ??
6200 ??
6200 ??
6202 ??
6203 ??
6203 6204 ??
                                                                                                                                                                         .ds
                                                                                                                                                                          .ds
                                                                                      mario_alive_flag:.ds
                                                                                                                                                                                                                                                                                                                                                                                                                     ; DATA XREF: return_if_mario_not_alive\r
; 0000:0BE3\r ...
                                                                                                                                                                      .ds 1
                                                                                      unk_0_6202:
mario_y_coord:
                                                                                                                                                                         .ds
                                                                                                                                                                                                                                                                                                                                                                                                                     ; DATA XREF: animate_kong_and_pauline+D6fr
; animate_kong_and_pauline+10Efr ...
                                                                                       unk_0_6204:
                                                                                                                                                                       .ds 1
  6204 ??
6205 ??
6205 6206 ??
6207 ??
6207 6208 ??
6209 ??
620A ??
620B ??
620C ??
                                                                                                                                                                                                                                                                                                                                                                                                                     ; DATA XREF: sub_0_19DA+13\r\; sub_0_1A33+22\r\...
                                                                                       mario_x_coord: .ds 1
                                                                                       unk_0_6206:
                                                                                                                                                                         .ds
                                                                                                                                                                                                                                                                                                                                                                                                                     ; DATA XREF: sub_0_1AC3+54\u00f10 o ; sub_0_1AC3+9D\u00e10 o ...
                                                                                      mario_flipy_sprite_tile:.ds 1
                                                                                    mario_flipx_colour:.ds 1 unk_0_6209: .ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                      ; DATA XREF: 0000:0FA5<sup>†</sup>o
                                                                                                                                                                    .ds 1
  6209 ??
620A ??
620B ??
620C ??
620D ??
                                                                                      mario_x_before_jump:.ds
mario_y_before_jump:.ds
                                                                                                                                                                  .ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                     ; DATA XREF: sub_0_lAC3+E6|w ; sub_0_lAC3+lB6|o ...; DATA XREF: sub_0_lAC3+lCe|r ; sub_0_lAC3+lEA|r ...; mario_???; DATA XREF: sub_0_lAC3+B0|o; sub_0_lF46+F|w ...
                                                                                    unk 0 620E:
   620E
620F ??
                                                                                      unk_0_620F:
                                                                                                                                                                   .ds 1
    620F
   620F
6210 ??
6210
                                                                                      unk_0_6210:
                                                                                                                                                                     .ds 1
                                                                                       unk_0_6211:
unk_0_6212:
                                                                                                                                                                       .ds 1
    6212 ??
                                                                                                                                                                       .ds 1
```

```
6213 ??
6214 ??
6215 ??
6216 ??
6218 ??
6219 ??
621A ??
621A 621B ??
621C ??
621C ??
                                                                                                 unk_0_6213:
                                                                                                unk_0_6214:
mario_climbing:
mario_jumping:
unk_0_6217:
                                                                                                                                                                                               .ds
                                                                                                                                                                                            .ds
.ds
.ds
                                                                                                                                                                                             .ds
                                                                                                unk_0_6218:
unk_0_6219:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: sub_0_1AC3+5D\u00e70 o ; sub_0_1AC3+2B3\u00e7r ...
                                                                                                unk_0_621A:
                                                                                                                                                                                           .ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; DATA XREF: sub_0_1AC3+262\dagger o ; sub_0_1AC3+2BD\dagger r
                                                                                              unk_0_621C:
                                                                                                                                                                                            .ds 1
621E ??
621E ??
621E ??
621F ??
621F ??
6220 ??
6221 ??
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6272 ??
6273 ??
6274 ??
6275 ??
6276 ??
6277 ??
6277 ??
6277 ??
6278 ??
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; DATA XREF: sub_0_1AC3+7 r; sub_0_1AC3+92 o ...
                                                                                               unk_0_621E:
                                                                                                                                                                                            .ds 1
                                                                                              unk_0_621F:
unk_0_6220:
unk_0_6221:
unk_0_6222:
                                                                                                                                                                                            .ds
                                                                                                                                                                                            .ds
                                                                                                                                                                                            .ds
.ds
.ds
                                                                                              unk_0_6224:
unk_0_6225:
                                                                                                                                                                                            .ds
                                                                                                                                                                                            .ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; DATA XREF: sub_0_30+14\dagger o ; 0000:01eA\dagger w...; DATA XREF: 0000:01D9\dagger w ; check_and_award_bonus+28\dagger o ...; DATA XREF: 0000:01D6\dagger w ; sub_0_37F+15\dagger r ...; keeps incrementing
                                                                                              level_type:
                                                                                                                                                                                            .ds 1
                                                                                              lives_left:
                                                                                                                                                                                            .ds 1
                                                                                              level:
                                                                                                                                                                                           .ds 1
                                                                                              seq_data:
unk_0_622C:
                                                                                                                                                                                          .ds 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; DATA XREF: 0000:0A6E†o; 0000:12F6†w ...
                                                                                               awarded_bonus_life:.ds 1
unk_0_622E: .ds 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; DATA XREF: 0000:0C05\r; 0000:0C0E\r\ ...
                                                                                               unk_0_622F:
                                                                                                                                                                                           .ds
                                                                                                                                                                                             .ds
                                                                                                                                                                                            626E
626F
6270
6271
6272
6273
6274
6275
6276
6277
6278
6279
 6278 ??
6279 ??
627A ??
627B ??
627C ??
627D ??
                                                                                                                                                                                               .ds
```

```
627F ??
6280 ??
                                                                                                                        .ds 1
                                                                                                                                                                                                                                                                                                     ; DATA XREF: 0000:0F64<sup>†</sup>o; 0000:0F72<sup>†</sup>o ...
                                                            unk 0 6280:
 6280
6281
6282
6281 ??
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6298 ??
                                                                                                                        .ds
.ds
.ds
.ds
.ds
.ds
.ds
                                                            unk_0_6288:
                                                                                                                                                                                                                                                                                                    ; DATA XREF: sub_0_2207+E o
                                                                                                                        .ds
.ds
.ds
                                                                                                                        .ds
                                                                                                                                                                                                                                                                                                     ; DATA XREF: sub_0_1A33+53\u00f10
; sub_0_1E57+29\u00f1r
                                                             unk_0_6290:
                                                            unk_0_6291:
unk_0_6292:
                                                                                                                        .ds
                                                                                                                        .ds
.ds
.ds
.ds
.ds
.ds
.ds
.ds
                                                                                                                                                                                                                                                                                                     ; DATA XREF: sub_0_1A33+4810
                                                                                                                         .ds
.ds
                                                            unk 0 62A0:
                                                                                                                                                                                                                                                                                                      ; DATA XREF: 0000:16BC w
                                                                                                                         .ds
0000:16D2\dagger\w ...
DATA XREF: sub_0_2602+14\dagger\o
                                                             unk_0_62A1:
                                                                                                                        .ds
                                                                                                                                     1
                                                                                                                         .ds
                                                                                                                                                                                                                                                                                                     ; DATA XREF: sub_0_2523+2E r ; sub_0_262F c ...
                                                            unk 0 62A3:
                                                                                                                        .ds 1
                                                                                                                                                                                                                                                                                                     ; DATA XREF: sub_0_2679+7\dagger o ; DATA XREF: sub_0_2523+39\dagger r
                                                             unk_0_62A5:
                                                                                                                         .ds
                                                             unk_0_62A6:
                                                                                                                        .ds
                                                                                                                                                                                                                                                                                                      ; sub_0_2679+14\u00e70
; DATA XREF: sub_0_27DA\u00e70
                                                             unk_0_62A7:
                                                                                                                        .ds
.ds
.ds
                                                            unk_0_62A8:
                                                            unk_0_62AA:
                                                            unk_0_62AC:
                                                                                                                         .ds
                                                                                                                        .ds
                                                            unk_0_62AF:
                                                                                                                                                                                                                                                                                                           DATA XREF: 0000:0AA6↑w
                                                                                                                        .ds
62AF
62BO ??
62BO
62B1 ??
                                                                                                                                                                                                                                                                                                            0000:0AEB1r
                                                                                                                                                                                                                                                                                                           0000:0AEB|r ...

DATA XREF: 0000:063A|r

0000:0F8E|o ...

DATA XREF: sub_0_2C03+9|r
                                                            unk_0_62B0:
                                                                                                                        .ds 1
                                                            unk_0_62B1:
                                                                                                                        .ds 1
62B1
62B2
62B3
62B4
                                                                                                                                                                                                                                                                                                      ; sub_0_2C8F+4B1o
62B1
62B2 ??
62B3 ??
62B4 ??
62B6 ??
62B6 ??
62B8 ??
62B9 ??
62BA ??
62BB ??
                                                            unk_0_62B2:
unk_0_62B3:
unk_0_62B4:
                                                                                                                        .ds
.ds
.ds
                                                                                                                                                                                                                                                                                                    ; DATA XREF: sub 0 2FCB+310
                                                                                                                         .ds
                                                             unk_0_62B8:
unk 0 62B9:
                                                                                                                         .ds
                                                                                                                                                                                                                                                                                                    ; DATA XREF: sub_0_3A2+9↑o
                                                                                                                         de
                                                                                                                                                                                                                                                                                                     ; DATA XREF: sub_0_3A2+2F\daggero o ; sub_0_3A2+3E\dagger w
                                                             unk_0_62BA:
62BB ??
62BC ??
62BE ??
62BE ??
62BE ??
62BE ??
62BE ??
62CB ??
62C1 ??
62C2 ??
62C3 ??
62C4 ??
62C6 ??
62C6 ??
62C7 ??
62C8 ??
62C8 ??
62C9 ??
62D1 ??
62D2 ??
62D3 ??
62D4 ??
62D5 ??
62D6 ??
62D7 ??
62D8 ??
62D9 ??
62D0 ??
                                                                                                                        .ds
                                                                                                                        .ds
```

unk_0_6350: unk_0_6351: unk_0_6352: unk_0_6353: unk_0_6354:

segment_addr_1: .ds segment_addr_2: .ds start_tile_index: .ds end_tile_index: .ds

segment_type: tile byte 1:

unk_0_63B7:

unk 0 63B8:

unk_0_63B9:

unk_0_63C0:

.ds

.ds

.ds current_tile_in_segment:.ds 1 .ds

.ds

.ds .ds .ds

.ds .ds

.ds

dY:

dx:

63B8

63B9 63BA

63BB ?? 63BC ?? 63BD ?? 63BE ??

63BF

63C0 ??

```
Page: 93
```

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

; DATA XREF: 0000:1166\u00e90

; DATA XREF: 0000:1151\u00e90

unk_0_64A0:

unk_0_64A3:

```
64A7 ??
64A8 ??
64A8 ??
64A8 ??
64A8 ??
64A8 ??
64A8 ??
64B8 ??
64B9 ??
                                                                                                                                                                                                       unk_0_64A7:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; DATA XREF: 0000:115D↑o
                                                                                                                                                                                                                                                                                                                                                                                                     unk_0_6500:
                                                                                                                                                                                                                                                                                                                                                                                                       .ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; DATA XREF: sub_0_1186+C\u00e10 o ; 0000:28F9\u00e10 ...
                                                                                                                                                                                                                                                                                                                                                                                                     unk_0_6507:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; DATA XREF: sub_0_1186+3↑o
```

; DATA XREF: 0000:1096 o

.ds

.ds

unk_0_6600:

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6600 ??
6601 ??
6602 ??
6603 ??
6604 ??
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                                                                                                                                                                                                                                                                                        unk_0_6603:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: 0000:10BA\u00e10
                                                                                                                                               unk_0_6607:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: 0000:10C6†o
                                                                                                                                               unk_0_660D:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: 0000:10AA o
```

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

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

File: E:\Projects\pace\pacede	v.net\sw\re
6AA3 ??	.ds 1
6AA4 ??	.ds 1
6AA5 ??	.ds 1
6AA6 ?? 6AA7 ??	.ds 1 .ds 1
6AA8 ??	.ds 1
6AA9 ??	.ds 1
6AAA ?? 6AAB ??	.ds 1
6AAB ?? 6AAC ??	.ds 1
6AAD ??	.ds 1
6AAE ??	.ds 1
6AAF ?? 6ABO ??	.ds 1
6AB1 ??	.ds 1
6AB2 ??	.ds 1
6AB3 ??	.ds 1
6AB4 ?? 6AB5 ??	.ds 1 .ds 1
6AB6 ??	.ds 1
6AB7 ??	.ds 1
6AB8 ?? 6AB9 ??	.ds 1 .ds 1
6ABA ??	.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 ??	.ds 1
6AC5 ??	.ds 1
6AC6 ?? 6AC7 ??	.ds 1 .ds 1
6AC8 ??	.ds 1
6AC9 ??	.ds 1
6ACA ??	.ds 1
6ACB ?? 6ACC ??	.ds 1 .ds 1
6ACD ??	.ds 1
6ACE ??	.ds 1
6ACF ??	.ds 1
6AD0 ?? 6AD1 ??	.ds 1
6AD2 ??	.ds 1
6AD3 ??	.ds 1
6AD4 ?? 6AD5 ??	.ds 1 .ds 1
6AD6 ??	.ds 1
6AD7 ??	.ds 1
6AD8 ??	.ds 1
6AD9 ?? 6ADA ??	.ds 1 .ds 1
6ADB ??	.ds 1
6ADC ??	.ds 1
6ADD ??	.ds 1
6ADE ?? 6ADF ??	.ds 1
6AEO ??	.ds 1
6AE1 ??	.ds 1
6AE2 ?? 6AE3 ??	.ds 1
6AE4 ??	.ds 1
6AE5 ??	.ds 1
6AE6 ?? 6AE7 ??	.ds 1
6AE8 ??	.ds 1
6AE9 ??	.ds 1
6AEA ??	.ds 1
6AEB ?? 6AEC ??	.ds 1 .ds 1
6AED ??	.ds 1
6AEE ??	.ds 1
6AEF ??	.ds 1
6AF0 ?? 6AF1 ??	.ds 1 .ds 1
6AF2 ??	.ds 1
6AF3 ??	.ds 1
6AF4 ?? 6AF5 ??	.ds 1 .ds 1
6AF6 ??	.ds 1
6AF7 ??	.ds 1
6AF8 ??	.ds 1
6AF9 ?? 6AFA ??	.ds 1
6AFB ??	.ds 1
6AFC ??	.ds 1
6AFD ??	.ds 1
6AFE ?? 6AFF ??	.ds 1 .ds 1
6B00 ??	.ds 1
6B01 ??	.ds 1
6B02 ?? 6B03 ??	.ds 1
6B03 ?? 6B04 ??	.ds 1
6B05 ??	.ds 1
6B06 ??	.ds 1
6B07 ?? 6B08 ??	.ds 1 .ds 1
6B08 ?? 6B09 ??	.ds 1
6B0A ??	.ds 1
6B0B ??	.ds 1
6B0C ?? 6B0D ??	.ds 1 .ds 1
6B0E ??	.ds 1
6B0F ??	.ds 1
6B10 ??	.ds 1
6B11 ?? 6B12 ??	.ds 1 .ds 1
6B12 ?? 6B13 ??	.ds 1
6B14 ??	.ds 1
6B15 ??	.ds 1
6B16 ??	.ds 1

File: E:\Projects\pace\pacedev	.net\sw\re
6B8B ??	.ds 1
6B8C ??	.ds 1
6B8D ?? 6B8E ??	.ds 1 .ds 1
6B8F ??	.ds 1 .ds 1
6B90 ??	.ds 1
6B91 ?? 6B92 ??	.ds 1 .ds 1
6B93 ??	.ds 1
6B94 ??	.ds 1
6B95 ?? 6B96 ??	.ds 1 .ds 1
6B97 ??	.ds 1
6B98 ??	.ds 1
6B99 ?? 6B9A ??	.ds 1 .ds 1
6B9B ??	.ds 1
6B9C ??	.ds 1 .ds 1
6B9D ?? 6B9E ??	.ds 1 .ds 1
6B9F ??	.ds 1
6BA0 ?? 6BA1 ??	.ds 1 .ds 1
6BA2 ??	.ds 1
6BA3 ??	.ds 1
6BA4 ?? 6BA5 ??	.ds 1 .ds 1
6BA6 ??	.ds 1
6BA7 ??	.ds 1
6BA8 ?? 6BA9 ??	.ds 1
6BAA ??	.ds 1
6BAB ?? 6BAC ??	.ds 1 .ds 1
6BAD ??	.ds 1
6BAE ??	.ds 1
6BAF ?? 6BBO ??	.ds 1 .ds 1
6BB1 ??	.ds 1
6BB2 ??	.ds 1
6BB3 ?? 6BB4 ??	.ds 1 .ds 1
6BB5 ??	.ds 1
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6BB7 ?? 6BB8 ??	.ds 1 .ds 1
6BB9 ??	.ds 1
6BBA ??	.ds 1
6BBB ?? 6BBC ??	.ds 1 .ds 1
6BBD ??	.ds 1
6BBE ?? 6BBF ??	.ds 1 .ds 1
6BC0 ??	.ds 1 .ds 1
6BC1 ??	.ds 1
6BC2 ?? 6BC3 ??	.ds 1 .ds 1
6BC4 ??	.ds 1
6BC5 ??	.ds 1
6BC6 ?? 6BC7 ??	.ds 1 .ds 1
6BC8 ??	.ds 1
6BC9 ?? 6BCA ??	.ds 1 .ds 1
6BCB ??	.ds 1
6BCC ??	.ds 1
6BCD ?? 6BCE ??	.ds 1 .ds 1
6BCF ??	.ds 1
6BD0 ??	.ds 1
6BD1 ?? 6BD2 ??	.ds 1 .ds 1
6BD3 ??	.ds 1
6BD4 ??	.ds 1 .ds 1
6BD5 ?? 6BD6 ??	.ds 1 .ds 1
6BD7 ??	.ds 1
6BD8 ?? 6BD9 ??	.ds 1 .ds 1
6BDA ??	.ds 1
6BDB ??	.ds 1
6BDC ?? 6BDD ??	.ds 1 .ds 1
6BDE ??	.ds 1
6BDF ??	.ds 1
6BE0 ?? 6BE1 ??	.ds 1 .ds 1
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6BE3 ?? 6BE4 ??	.ds 1 .ds 1
6BE5 ??	.ds 1
6BE6 ??	.ds 1
6BE7 ?? 6BE8 ??	.ds 1
6BE9 ??	.ds 1
6BEA ??	.ds 1
6BEB ?? 6BEC ??	.ds 1
6BED ??	.ds 1
6BEE ??	.ds 1
6BEF ?? 6BF0 ??	.ds 1 .ds 1
6BF1 ??	.ds 1
6BF2 ?? 6BF3 ??	.ds 1 .ds 1
6BF4 ??	.as 1 .ds 1
6BF5 ??	.ds 1
6BF6 ?? 6BF7 ??	.ds 1 .ds 1
6BF8 ??	.ds 1
6BF9 ??	.ds 1
6BFA ?? 6BFB ??	.ds 1
6BFC ??	.ds 1
	.ds 1

```
6BFF ??
                                                                             .ds 1
    6BFF ; end of 'RAM'
6BFF ; end of 'RAM'
7000 ;
7000 ; segment type: Regular
7000 ; segment 'SPRAM'
7000 ?? ?? ?? ??+SPRAM_start: .ds 0x400
7000 ?? ?? ?? ?? ??+
7000 ?? ?? ?? ?? ??+
7000 ?? ?? ?? ?? ??+
7000 ?? ?? ?? ?? ??+
7000 ?? ?? ?? ?? ??+
7000 ?? ?? ?? ?? ??+
7000 ?? ?? ?? ?? ??+
7000 ?? ?? ?? ?? ??+
7000 ?? ?? ?? ?? ??+
7400 ; 7400 ;
                                          ; end of 'RAM'
     6BFF
                                                                                                                                                                                               DATA XREF: 0000:013D\o
                                                                                                                                                                                              DATA XREF: 0000:013Df0
0000:0276f0
2 banks of 128 sprites
- only 16 displayed per scanline
@0 7:0=y
@1 7=flipy,6:0=code
@2 7=flipx,3:0=colour
@3 7:0=x
    ; Segment type: Regular
; segment 'VRAM'
                                                                        .org 0x7400
.ds 0x400
                                                                                                                                                                                          ; DATA XREF: 0000:0285\u00f30 o ; clear_tiles_and_sprites\u00f30 ...
; Segment type: Regular ; segment 'I8257'
                                                                                                                                                                                           ; DATA XREF: 0000:00721r
                                                                                                                                                                                           ; update_sounds+31o ...
                                                                                                                                                                                          ; DATA XREF: 0000:01E4\dagger w ; 0000:02AF\dagger w ...
                                                                                                                                                                                          ; DATA XREF: 0000:02A8\dagger w ; 0000:0779\dagger o ...
     7D88 ?? ?? ?? ??+
7D88 ?? ?? ?? ??+; end of 'IO'
7D88 ?? ?? ?? ??+
7D88 ?? ?? ?? ??+; end of file
```