```
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)
.hd64 ; this is needed only for HD64180
                      ; Segment type: Pure code
; segment 'ROM'
                      RESET:
                                                                                                             ; CODE XREF: 0000:00B2|j; DATA XREF: 0000:0FCD|o
                                                      a, #0
                                            1d
                                                       (nmi_mask), a
                                            jp
                      ; BUBROUTINE
0008
0008
0008
0008
3A 07 60
0008
000B 0F
000C D0
000D 33
000E 33
000F C9
000F
000F
00010
0010
0010
                                                                                                             ; 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)
                                            rrca
ret
                                                                                                             ; in attract mode?
; no, return
                                                      NC
                                            inc
                                                       sp
                                                                                                             ; discard return address
                                            inc
                                                      sp
                      ret; End of function return_if_attract_mode
                      ; UBROUTINE SUBROUTINE
; CODE XREF: sub_0_3A2+3|p; sub_0_2C03+3|p ...
                      return_if_mario_not_alive:
                                            ld
                                                      a, (mario_alive_flag)
                                            rrca
                                                                                                             ; is mario alive?
                                                      С
                                                       sp
                                                                                                             ; discard return address
                                            inc
                                                      sp
                                            ret
                      ; End of function return_if_mario_not_alive
                      ; USB BOUTINE COUTINE
                                                                                                       ; CODE XREF: return_NOT_16bit_timeout+4\!\!\mid j ; display_1UP+10\!\!\midp ...
                      return NOT 8bit timeout:
                                           ld
dec
                                                      hl, #eight_bit_countdown (hl)
                                            ret
                                                       sp
                                                                                                             ; discard return address
                                                      sp
                                            ret
                      ; End of function return_NOT_8bit_timeout
                      ; THE SUBROUTINE
                      return_NOT_16bit_timeout:
                                                                                                             ; CODE XREF: 0000:0763 p; 0000:084B p
                                                    hl, #sixteen_bit_countdown_msb
(hl)
Z, return_NOT_8bit_timeout
                                           1d
                                            jr
                                                                                                             ; CODE XREF: print_message_A+1A| j
; sub_0_1783+4| j
; discard return address
                      pop_hl_ret:
                                                     hl
                                         pop
                                            ret
                      ; End of function return_NOT_16bit_timeout
                      ; SUBROUTINE SUBROUTINE
                      jump_table_go_A:
                                                                                                             ; CODE XREF: 0000:00C9 p
                                                                                                             ; 0000:0701/p ...
; entries are words
; return address is table base
                      add a, a
pop hl
ld e, a
ld d, #0
jp loc_0_32
; End of function jump_table_go_A
                                                                                                             ; DE = offset
; skip vector address
                      ; SUBROUTINE
                                                                                                             ; CODE XREF: sub_0_3A2+2\p; 0000:1668\p ...
                      sub_0_30:
                                                      return if level bit not set
                                                                                                             ; CODE XREF: jump_table_go_A+5^j
                      loc_0_32:
                                                      hl, de
e, (hl)
hl
d, (hl)
de, hl
                                            add
                                                                                                             ; get address of entry
                                            ld
inc
                                                                                                            ; DE = jump address
; HL - jump address
                                            ld
                                            ex
jp
                                                      de, hl
                                                                                                             ; 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:
                                                      de, #4
b, #10
                                           1d
                                                                                                             ; CODE XREF: sub_0_30+11|j; 0000:0D9A|p ...
                      add_c_sprite_register_xB:
                                                      a, c
a, (hl)
                                            add
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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
                                                               (h1), a
h1, de
add_c_sprite_register_xB
003F 77
                                                                                                                                ; (HL)+=C
add
                                                                                                                                ; next byte
                                                   djnz
ret
                                                                                                                                ; loop
                          ; CODE XREF: sub_0_30↑j
                                                                                                                               ; get level type
                          loc_0_48:
                                                                                                                                ; CODE XREF: sub_0_30+19|j
                                                                loc_0_48
                                                                                                                                ; get bit of A for level
                                                   djnz
                                                                                                                                ; bit set, return
; discard return address
                                                                hl
                                                    ret
                          ; End of function sub 0 30
                          ; SUBROUTINE SUBROUTINE
                                                                                                                               ; CODE XREF: animate_kong_and_pauline+4D|p; animate_kong_and_pauline+77|p ...; ptr sprite #2; 10 4-byte sprites to copy; copy 40 bytes of sprite data
                          copy_sprites_2_11_data:
                                                   1d
                                                               de, #soft_sprite_ram+8
bc, #40
                                                   ld
ldir
                                                    ret
                          ; End of function copy_sprites_2_11_data
                          ; SUBROUTINE
                                                                                                                                ; CODE XREF: 0000:00B9|p; sub_0_2523+22|p ...
                         rand:
                                                               a, (random_no)
hl, #gen_purpose_timer
a, (hl)
                                                   ld
                                                   ld
add
                          loc_0_5E:
                                                                hl, #random_no+1
a, (h1)
(random_no), a
                                                   add
ld
                          ret; End of function rand
                                                   push
                                                               bc
de
hl
                                                   push
                                                   push
                                                   push
push
                                                               ix
iy
                                                    xor
ld
                                                                a (nmi_mask), a
                                                                                                                                ; disable_nmi
                                                   ld
and
jp
ld
                                                                a, (in2_snd_latch)
#1
NZ, 0x4000
                                                                                                                                ; IN2
; bit 0 set?
; 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?
                                                               NZ, loc_0_B5
a, (upright)
                                                    jp
ld
                                                                                                                                ; yes, skip reading inputs
                                                   and
                                                                NZ, loc_0_98
                                                                . LOC_U_988
a, (current_player_E)
a
                                                    jp
ld
                                                   and
ld
                                                                                                                                ; player 2?
; (cocktail)
; yes, skip
                                                               a, (in1)
NZ, loc_0_9B
                                                    jр
                                                                                                                                ; CODE XREF: 0000:008B<sup>†</sup>j; (upright)
                          loc_0_98:
                                                   ld
                                                                a, (in0)
                                                                                                                                ; CODE XREF: 0000:0095<sup>†</sup>j; store IN0/1; joystick only
                         loc_0_9B:
                                                                b, a
#0xF
                                                   and
                                                                                                                                ; store
; last raw input
; negate
; rising-edge detect
                                                                c, a
a, (last_raw_in)
                                                    ld
                                                    ld
                                                    cpl
                                                    and
                                                                #0x10
                                                    and
                                                                                                                                ; button
                                                    rla
rla
                                                                                                                                ; bit 7
; add joystick bits
; raw controller input
; joystick and button press
                                                    rla
                                                    or
00A9 50

00AB 6F

00AC 22 10 60

00AF 78

00B0 CB 77

00B2 C2 00 00

00B5 21 1A 60

00B5 21 1A 60

00B8 35

00B9 CD 7B 01

00BF CD E0 00

00C2 21 D2 00

00C5 E5

00C6 3A 05 60

00C9 EF

00C9 EF

00C9 EF

00C9 EF

00C6 23 01

00CC 3C 07

00CE B2 08

00DD FE 06

00D2

00D2
                                                   ld
ld
                                                                h, b
l, a
                                                                (controller_in), hl
                                                    ld
                                                                a, b
6, a
NZ, RESET
                                                    1d
                                                   bit
                                                                                                                               ; reset input?
                                                   jp
                         loc_0_B5:
                                                                                                                                ; CODE XREF: 0000:0084<sup>†</sup>j
                                                    ld
                                                               hl, #gen_purpose_timer
(hl)
                                                   dec
call
                                                                                                                                ; general purpose timer tick
                                                                rand
                                                                                                                                ; randomise
                                                   call
call
ld
                                                                check_coin_inserted
update_sounds
hl, #nmi_exit
                                                                                                                                ; IRO resume address
                                                   push
ld
rst
                                                                hl
                                                                a, (nmi_sequencer)
0x28
                                                                                                                                ; go!
                                                    .dw init_machine_settings
.dw chk_credits_and_vector_on_attrac
.dw vector_on_credit_sequencer
.dw vector_on_ingame_sequencer
                                                                                                                                ; Jump table (nmi sequencer)
                                                                                                                                ; DATA XREF: 0000:00C21o
                          nmi_exit:
                                                                iy
ix
hl
de
                                                   pop
pop
pop
00D2 FD E1
00D4 DD E1
00D6 E1
00D7 D1
00D8 C1
00D9 3E 01
00DB 32 84 7D
00DE F1
00DF C9
00E0
00E0
                                                   pop
ld
ld
                                                               bc
a, #1
(nmi_mask), a
                                                                                                                                ; enable_nmi
                                                   pop
                          ; BURNESS SUBROUTINE
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
                                                                                                     ; CODE XREF: 0000:00BF1p
                    update_sounds:
hl, #digital_snd_tmr_walk
de, #in2_snd_latch
a, (attract_mode_flag)
a
                                        ld
ld
and
                                                                                                     ; base of digital sound triggers
                                                                                                     ; in attract mode?
                                                                                                     ; yes, return
; 8 digital sound triggers
                                        ret
                                                   NZ
                                        ld
                                                   b, #8
                                                                                                     ; CODE XREF: update_sounds+18|j; timer for this sound; done?; yes, skip; decrement timer
                    loc_0_ED:
                                        ld
                                                  a, (hl)
                                         and
                                                  Z, loc_0_F5
(hl)
                                         jр
                                         dec
                                                  a, #1
                                        ld
                                                                                                     ; enable
                                                                                                     ; CODE XREF: update_sounds+F<sup>†</sup> j
; set trigger state for this sound
; next latch
; next timer
; loop for 8 sounds
                    loc_0_F5:
                                         ld
                                                   (de), a
                                                  loc_0_ED
hl, #unk_0_608B
a, (hl)
a
                                        djnz
                                        ld
                                        ld
and
                                                   NZ, loc 0 108
                                        jp
dec
                                        dec
                                         jр
                                                   set_bg_sound_music
                    loc_0_108:
                                                                                                     ; CODE XREF: update_sounds+1F|j
                                                   (hl)
                                        dec
ld
                                                   a, (hl)
                                                                                                     ; get background sound/music
                                                                                                     ; CODE XREF: update sounds+251 i
                    set_bg_sound_music:
                                                   (in0), a hl, #music_something
                                        ld
                                                                                                     ; background sound/music select
                                         xor
                                                   (hl)
                                                                                                     ; any music to play?
; no, skip
; ???
                                         ср
                                                   Z, loc_0_118 (hl)
                                                                                                     ; ???;; flag music start
                                         inc
                                                                                                     ; CODE XREF: update_sounds+33<sup>†</sup> j ; digital sound - dead
                    loc_0_118:
                                                   (dsw_audio_irq), a
                                         ret
                    ; End of function update_sounds
                    ; SUBROUTINE
                                                                                                     ; CODE XREF: check_coin_inserted+1A\midp ; 0000:02B5\midp ...
                    stop_sound:
                                        ld
                                                  b, #8
                                         xor
ld
                                                   a
hl, #in2_snd_latch
                                                                                                     ; sound latch
                                         ld
                                                   de, #digital_snd_tmr_walk
                                                                                                     ; timers
                                                                                                     ; CODE XREF: stop_sound+D|j
                    loc_0_125:
                                                   (hl), a
(de), a
                                         ld
                                                                                                     ; kill latch
; kill timer
                                         ld
                                                   loc_0_125
                                        djnz
ld
                                                                                                     ; write 8 bytes
                                                   b, #4
                    loc_0_12D:
                                                                                                     ; CODE XREF: stop_sound+13|j
                                        ld
                                                   (de), a
                                        inc
djnz
ld
                                                   loc_0_12D
                                                                                                       another 4 copies audio IRQ
                                                   (dsw_audio_irq), a
                                        1d
                                                   (in0), a
                                                                                                     ; background music = NONE
                    ; End of function stop_sound
                                                                                                       dma_reg_tbl:
                                        .db 0x53
                                         .dw soft_sprite_ram
.dw 0x4180
.dw SPRAM_start
.dw 0x8180
                                                                                                       CHO address
                                                                                                       CHO terminal count (RD 0x180 bytes)
                                                                                                     ; CH1 Address; CH1 terminal count (WR 0x180 bytes)
                                   SUBROUTINE
                                                                                                     ; CODE XREF: 0000:007D1p
                    dma_sprite_data_to_hw:
                                                   (p8257_drq), a
                                                                                                     ; deassert DRQ0&1
                                                  a, (hl)
(i8257_io+8), a
                                         ld
                                                                                                       0x53
                                         1d
                                                                                                     ; mode set
                                                                                                     ; 0x00
; CHO DMA address LSB
                                         ld
ld
                                                   a, (hl)
(i8257_io), a
                                                  h1
a, (h1)
(i8257_io), a
                                        ld
ld
                                                                                                     ; 0x69
; CH0 DMA address MSB
                                         inc
                                                  a, (hl)
(i8257_io+1), a
hl
a, (hl)
(i8257_io+1), a
                                        ld
ld
                                                                                                     ; 0x80 ; terminal count LSB
                                         inc
                                         ld
                                                                                                     ; 0x41
                                        ld
inc
                                                                                                     ; terminal count MSB
                                                  hl
a, (hl)
(i8257_io+2), a
                                                                                                     ; 0x00
; CH1 DMA address LSB
                                         ld
ld
                                        inc
ld
                                                  a, (hl)
(i8257_io+2), a
                                                                                                     ; 0x70
; CH1 DMA address MSB
                                        1d
                                                                                                     ; 0x80 ; CH1 terminal count LSB
                                                  a, (hl)
(i8257_io+3), a
                                         ld
                                                  hl
a, (hl)
(i8257_io+3), a
                                         inc
                                        ld
ld
ld
                                                                                                     ; 0x81 ; CH1 terminal count MSB
                                                   (p8257_drq), a
                                         1d
                                                                                                     ; assert DRO0&1
                                                   (p8257_drq), a
                                                                                                     ; deassert DRQ0&1
                                         ret
                    ; End of function dma_sprite_data_to_hw
                    ; SUBROUTINE
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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
d, a
                                                                                                                                          ; D = coins
                                                                     a, a
e, a
                                                        add
                                                       ld
                                                                                                                                          ; E = coins x2
                                                                                                                                          ; CODE XREF: read_dips_and_high_score_tbl+2E↑j; read_dips_and_high_score_tbl+37↑j
                            loc_0_247:
                                                                     (hl), d
hl
(hl), e
                                                       inc
ld
                                                       inc
ld
inc
ld
                                                                      (hl), b
                                                                     hl (hl), c
                                                       inc
ld
                                                                     hl
a, (dsw_audio_irq)
                                                                                                                                          ; read DIPSW; upright?
                                                        rlca
                                                                     a. #1
                                                       ld
                                                                     C, loc_0_259
                                                                                                                                          ; yes, skip
                                                                                                                                           ; CODE XREF: read_dips_and_high_score_tbl+4E<sup>†</sup>j
                            loc_0_259:
                                                                     (hl), a
hl, #high_score_tbl
de, #high_score_tbl_ram
bc, #0xAA; '¬'
                                                                                                                                          ; store cocktail/upright
                                                                                                                                          ; destination in RAM
; length of table
; copy to ram
                                                        ld
                                                       ld
                                                       ldir
                                                        ret
                            ; End of function read_dips_and_high_score_tbl
                                                                                                                                          ; CODE XREF: 0000:0005†j
                            INIT:
ld
ld
                                                                     b, #16
hl, #RAM_start
                                                                                                                                          ; start of RAM ; zero byte
                                                       xor
                            loc_0_26C:
                                                                                                                                          ; CODE XREF: 0000:0272|j
                                                                                                                                          ; CODE XREF: 0000:0270 - i
                            loc 0 26D:
                                                                     (hl), a
                                                                                                                                          ; zero memory
; next location
                                                        inc
                                                       dec
                                                                     NZ, loc_0_26D
                                                                                                                                          ; clear 256 bytes
; clear 4K bytes
                                                                     loc_0_26C
b, #4
hl, #SPRAM_start
                                                       djnz
ld
                                                       1d
                                                                                                                                          ; start of sprite RAM
                                                                                                                                          ; CODE XREF: 0000:027F|j
                            loc_0_279:
                                                        ld
                            loc_0_27A:
                                                                                                                                           ; CODE XREF: 0000:027D|j
                                                                      (hl), a
                                                                                                                                           ; zero memory
; next location
                                                        inc
                                                                     hl
                                                       dec
jr
djnz
ld
                                                                     c

NZ, loc_0_27A

loc_0_279

b, #4

a, #0x10

h1, #VRAM_start
                                                                                                                                          ; clear 256 bytes
; clear 1K bytes
                                                       ld
ld
                                                                                                                                          ; space character
; start of VRAM
                                                                                                                                          ; CODE XREF: 0000:028F|j
                           loc 0 288:
                                                       ld
                                                                     c, #0
                                                                                                                                           ; CODE XREF: 0000:028D|j
                            loc_0_28A:
                                                                     (hl), a
                                                                                                                                          ; clear memory
; next location
                                                       1d
                                                       inc
                                                                     c
NZ, loc_0_28A
loc_0_288
hl, #fg_vector_fn_params
b, #64
a, #0xFF
                                                                                                                                          ; clear 256 bytes
; clear 1K bytes
                                                       jr
djnz
                                                       ld
ld
                                                                                                                                          ; fill 64 bytes
; fill byte
                                                        ld
                                                                                                                                          ; CODE XREF: 0000:029A|j; set to $FF; next location; set 64 bytes
                            loc_0_298:
                                                        ld
                                                                      (hl), a
                                                        inc
                                                                     nl
loc_0_298
a, #0xC0; 'L'
(fg_fn_queue_tail), a
(fg_fn_queue_head), a
                                                       djnz
ld
ld
                                                                                                                                          ; init queue tail
; init queue head
                                                        1d
                                                                     (spritebank), a
(palette_bank), a
(palette_bank+1), a
                                                                                                                                          ; b0=0
; b1=0
                                                        ld
                                                        ld
                                                       inc
ld
                                                                     a (flipscreen), a sp, #0x6C00 stop_sound a, #1
                                                       ld
call
                                                                     (nmi_mask), a
                                                                                                                                           ; enable interrupts
02BD 02BD 02BD 26 60 02BD 02BD 02BD 02BD 02C3 7E 02C3 7E 02C4 87 02C5 30 1C 02C7 CD 15 03 02CA CD 50 03 02DD 34
                                                                                                                                          ; CODE XREF: 0000:02D8|j
; 0000:02E1|j
; DATA XREF: ...
; msb of queue
; ptr head of queue
                            main_loop:
                                                                     h, #0x60 ; '`'
                                                                     n, #UXBU; ''
a, (fg_fn_queue_head)
l, a
a, (h1)
a, a
NC, process_fg_fn_queue
flash_1UP_or_2UP
check_and_award_bonus
h1 #random no+1
                                                       ld
ld
ld
                                                                                                                                           ; get queue entry
                                                       add
                                                                                                                                          ; empty?
; no, skip
                                                       jr
call
                                                       call
ld
                                                                     cneck_and_award_bonus
hl, #random_no+1
(hl)
hl, #unk_0_6383
a, (gen_purpose_timer)
(hl)
                                                                                                                                           ; random LSB
02D4 3A 1A 60
02D7 BE
                                                        1d
                                                       cp
jr
ld
02D7 BE 02D7 BE 02DA 77 02DB CD 7F 03 02DE CD A2 03 02E1 18 DA 02E3 02E3 E6 1F 02E5 5F 02E6 16 07 02E8 36 FF 02EA 2C 02EB 4E 02EC 36 FF
                                                                                                                                           ; same?
                                                                     (N1)
Z, main_loop
(h1), a
difficulty_timer_tick
sub_0_3A2
main_loop
                                                                                                                                          ; yes, loop
; generate LSB from timer
                                                       call
                                                       call
                                                                                                                                           ; fireball release
                            process_fg_fn_queue:
                                                                                                                                          ; CODE XREF: 0000:02C51j
                                                                     #0x1F
                                                       and
ld
                                                                                                                                           ; E=param1 (vector entry)
                                                                     e, a
d, #0
                                                                                                                                          ; msb of vector table offset
; wipe param1
                                                        1d
                                                       ld
inc
                                                                      (hl), #0xFF
                                                                                                                                          ; C=param2 (vector fn param)
; wipe param2
                                                                         (hl)
                                                        ld
02EC 36 FF
                                                                      (hl), #0xFF
                                                       ld
02EC 36 FF
02EE 2C
02EF 7D
02F0 FE C0
02F2 30 02
                                                       inc
ld
                                                                                                                                           ; new queue head
                                                                     #0xC0 ; 'L'
NC, loc_0_2F6
                                                       cp
jr
                                                                                                                                          ; wrap?
; no, skip
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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
02F4 3E C0
                                                         a, #0xC0 ; 'L'
                                              ld
loc_0_2F6:
                                                                                                                   ; CODE XREF: 0000:02F211
                                              ld
ld
                                                          (fg_fn_queue_head), a
                                                                                                                   ; vector fn param
                                                         a, c
hl, #main_loop
                                              1d
                                              push
ld
add
                                                                                                                    ; return address
; jump table
; entry index
                                                         hl
hl, #foreground_vector_table
                                                         hl, de
e, (hl)
hl
                                               1d
                                              inc
ld
                                                         d, (hl)
de, hl
                                                                                                                    ; DE=vector address
; HL=vector address
                                               ex
                                                                                                                    ; jump
                                               jp
                                                          (hl)
                       foreground_vector_table:.dw add_bonus_and_update_high_score
                                                                                                                    ; DATA XREF: 0000:02FE<sup>†</sup>o
                                                                                                                    ; jump table
                                              .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 SUBROUTINE
                                                                                                                    ; CODE XREF: 0000:02C71p
                       flash_1UP_or_2UP
                                                          a, (gen_purpose_timer)
b, a
#0xF
                                              14
                                                                                                                    ; save timer
                                              and
                                              ret
                                              rst
ld
call
ld
                                                         8
a, (current_player_D)
get_1UP_or_2UP_screen_location
de, #0xFFE0
4, b
Z, loc_0_33E
a, #0x10
(h1), a
h1, de
(h1), a
h1, de
(h1), a
a, (two players)
                                                                                                                    ; return if attract mode
                                                                                                                    ; column address offset
; unhide 1UP/2UP?
; yes, skip
; " "
                                              bit
jr
ld
                                                                                                                    ; wipe "1" or "2"; next column; wipe "U"
                                              ld
                                              add
ld
                                                                                                                    ; next column
; wipe "P"
                                              add
ld
                                                          a, (two_players)
                                              ld
and
                                                                                                                    ; 1 player?
                                              ret
ld
                                                                                                                    ; yes, return
                                                          a, (current_player_D) #1
                                              call
                                                          get_1UP_or_2UP_screen_location
                       loc_0_33E:
                                                                                                                    ; CODE XREF: flash_1UP_or_2UP+13^j
                                                         a (h1), a h1, de (h1), #0x25; '%' h1, de (h1), #0x20; '''
                                                                                                                    ; "1" or "2"
                                              ld
                                              add
ld
add
ld
                                                                                                                    ; next column
; "U"
                                                                                                                    ; next column
; "P"
                       ret; End of function flash_1UP_or_2UP
                       ; INTERESTINATION S U B R O U T I N E
                                                                                                                    ; CODE XREF: flash_lUP_or_2UP+B|p
; flash_lUP_or_2UP+26|p
; ptr "lUP" screen loaction
; player 1?
                       get_1UP_or_2UP_screen_location:
                                              ld
                                                          hl, #VRAM_start+0x340
                                               and
                                                                                                                    ; yes, return
; ptr "2UP" screen location
                                               ret
                                              ld
ret
                                                          hl, #VRAM_start+0xE0
                       ; End of function get_1UP_or_2UP_screen_location
                       ; SUBROUTINE SUBROUTINE
                                                                                                                    ; CODE XREF: 0000:02CA1p
                                                          a, (awarded_bonus_life)
                                              ld
                                                                                                                    ; already got bonus life?
                                              and
                                                          hl, #p1_score+1
a, (current_player_D)
a
                                               1d
                                                                                                                    ; player 1?
; yes, skip
                                              and
                                                         Z, loc_0_361
hl, #p2_score+1
                                                                                                                    ; CODE XREF: check_and_award_bonus+Cf;
; get hundreds from score
; only thousands
                       loc 0 361:
                                              ld
                                                          a, (hl)
#0xF0; '-'
                                              and
                                               ld
                                                          b, a
hl
                                                                                                                    ; save
                                                                                                                    ; next score byte
; get tens of thousands
; only tens of thousands
; B = thousands (and tens of)
                                              inc
ld
                                                              (hl)
                                              and
                                              or
                                              rrca
                                              rrca
                                               rrca
                                                                                                                    ; swap nibbles
                                                          hl, #bonus_setting (hl)
                                              ld
                                                                                                                   ; reached bonus score?
; no, return
                                               ср
                                               ret
                                                          C
a, #1
                                               ld
                                              ld
ld
                                                          (awarded_bonus_life), a
hl, #lives_left
(hl)
                                                                                                                    ; flag that we've got the bonus
                                                                                                                    ; extra life
                                              inc
                       jp display_lives_and_level
; End of function check_and_award_bonus
                        ; SUBROUTINE
037F

037F

037F

21 84 63

0382 7E

0383 34

0384 A7

0385 C0

0386 21 81 63

0389 7E

038A 47

0385 47

0386 26 07

038E C0

038F 78
                       ; CODE XREF: 0000:02DB1p
                                                         hl, #unk_0_6384
a, (hl)
(hl)
                                                                                                                    ; get LSB
; LSB tick
                                               inc
                                              and
                                                                                                                    ; LSB overflow?
                                                                                                                    ; no, return
                                                         NZ
hl, #unk_0_6381
a, (hl)
b, a
(hl)
#7
                                                                                                                    ; get MSB
                                               ld
                                               ld
                                                                                                                    ; MSB tick
; expired?
                                              inc
and
                                              ret
ld
                                                          NZ
a. b
                                                                                                                    ; no, return
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
0390 OF
0391 0F
0392 0F
0393 47
0394 3A 29 62
0398 FE 05
0398 FE 05
0398 SE 05
0341 C9
03A1 C9
03A2 SE 03
03A4 SE 03
03A5 D7
03A6 3A 50 63
03A9 OF
03AA D8
03AB SE 03
03AA SE 03
03AB SE 03
03BB SE 05
                                                          rrca
                                                          rrca
ld
ld
                                                                        b, a
a, (level)
a, b
#5
C, loc_0_39E
                                                                                                                                                  ; adjust for level
                                                          add
                                                           cp
jr
ld
                                                                                                                                                  ; max?
; no, skip
; set to max
                             loc_0_39E:
                                                                                                                                                  ; CODE XREF: difficulty_timer_tick+1B<sup>†</sup>j
                                                          ld
                                                                         (unk_0_6380), a
                                                          ret
                              ; End of function difficulty\_timer\_tick
                              ; SUBROUTINE
                             sub_0_3A2:
                                                                                                                                                 ; CODE XREF: 0000:02DE↑p
                                                          ld
                                                                         a, #3
0x30
                                                          rst
                                                                                                                                                  ; return if level bit not set
; return if mario not alive
                                                                         a, (unk_0_6350)
                                                           1d
                                                          rrca
ret
ld
                                                                        hl, #unk_0_62B8
(hl)
                                                          dec
                                                           ret
                                                                         (hl), #4
a, (unk_0_62B9)
                                                          ld
ld
                                                          rrca
ret
ld
ld
ld
                                                                         hl, #soft_sprite_ram+0x129
b, #0x40; '@'
ix, #unk_0_66A0
                                                                                                                                                ; sprite #173, flipy & code
                                                          rrca
jp
ld
                                                                         NC, loc_0_3E4
9(ix), #2
0xA(ix), #2
                                                          ld
                                                          inc
                                                                        b

sub_0_3F2

h1, #unk_0_62BA

(h1)

NZ

a, #1

(unk_0_62B9), a

(unk_0_63A0), a
                                                          call
ld
                                                           1d
                                                           14
                             loc 0 3DE:
                                                                                                                                                  ; CODE XREF: sub 0 3A2+4D-j
                                                          ld
ld
                                                                         a, #0x10
(unk_0_62BA), a
                              loc_0_3E4:
                                                                                                                                                  ; CODE XREF: sub_0_3A2+1F<sup>†</sup> j
                             ld 9(ix), #2
ld 0xA(ix), #0
call sub_0_3F2
jp loc_0_3DE
; End of function sub_0_3A2
                              ; SUBROUTINE
                                                                                                                                                  ; CODE XREF: sub_0_3A2+2C<sup>p</sup> ; sub_0_3A2+4A<sup>p</sup>
                             sub_0_3F2:
                                                                         (hl), b a, (random_no+1)
                                                          ld
                                                          ld
rrca
                                                           ret
                                                          inc
ld
                                                                         (hl), b
                                                           ret
                             ; End of function sub_0_3F2
                              ; SUBROUTINE SUBROUTINE
                                                                        a, (level_type)
#2
                              animate_kong_and_pauline:
                                                                                                                                                  ; CODE XREF: 0000:1980 p
                                                          ld
                                                          cp
jp
ld
                                                                        #2
NZ, loc_0_413
hl, #soft_sprite_ram+8
a, (unk_0_63A3)
c, a
                                                                                                                                                  ; cement pies?
                                                                                                                                                  ; no, skip
; sprite #2 y coord
                                                                                                                                                 , sprice #2 y coord
; get top conveyer speed/direction
; kong location adjustment
; add +/-1 to y for 10 sprites
; sprite #4, y coord
                                                           ld
ld
                                                                         a, (soft_sprite_ram+0x10) #59
                                                           sub
                                                                         (unk_0_63B7), a
                                                          1d
                             loc_0_413:
                                                                                                                                                 ; CODE XREF: animate_kong_and_pauline+5^j
                                                                         a, (kong_thrash_flag)
                                                          ld
                                                          and
jp
ld
                                                                                                                                                  ; thrashing arms?
; yes, continue
                                                                         NZ, loc_0_426
                                                                         a, (gen_purpose_timer)
                                                          and
                                                                                                                                                  ; expired?
                                                                        NZ, animate_pauline
a, #1
(kong_thrash_flag), a
                                                                                                                                                  ; no, animate Pauline
; flag thrashing
                                                          ld
                             loc_0_426:
                                                                                                                                                  ; CODE XREF: animate_kong_and_pauline+1C<sup>†</sup> j
                                                                         hl, #kong_thrash_tmr
(hl)
                                                                                                                                                 ; inc
                                                          inc
ld
                                                                        a, (h1)
#128
z, draw_kong_mouth_closed
a, (barrel_deployment)
                                                                               (hl)
                                                                                                                                                  ; get timer
; finished thrashing?
; yes, continue
                                                           cp
                                                           jp
ld
                                                          and
jp
ld
                                                                                                                                                 ; deployment in progress?
; yes, skip (no thrashing)
; get timer
                                                                        a
NZ, animate_pauline
a, (hl)
b, a
#31
                                                          1d
                                                                                                                                                 ; 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
                                                                                                                                                  ; left/right depending on timer
                                                          bit
                             do_kong_thrash:
                                                                                                                                                 ; CODE XREF: animate_kong_and_pauline+48<sup>†</sup>j
                                                                         copy_sprites_2_11_data
a, #3
                                                          call
ld
                                                          1d
                                                                         (digital_snd_tmr_thump), a
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
0516
                                      loc_0_516:
                                                                                                                                                                                                    CODE XREF: display_3_tiles_HL+5|j
; store tile
; next row/column
; prev tile
; loop for 3 tiles
                                                                                                (hl), a
hl, de
                                                                              1d
                                                                             add
dec
djnz
                                                                                                a
loc_0_516
                                       ret; End of function display_3_tiles_HL
                                       ; SUBROUTINE SUBROUTINE
                                                                                                                                                                                                ; CODE XREF: 0000:0698 p
                                      add_bonus_and_update_high_score:
                                                                                                                                                                                                ; 0000:06A5|j; DATA XREF: ..
                                                                              ld
                                                                                                 с, а
8
                                                                                                                                                                                                ; return if attract mode
                                                                             rst
                                                                             call
ld
add
                                                                                                current_player_score_DE
a, c
a, c
a, c
                                                                              add
                                                                             ld
ld
                                                                                                c, a
hl, #b
b, #0
hl, bc
                                                                                                          #bonus_points_tbl
                                                                              ld
                                                                             add
                                                                                                                                                                                                ; 3 bytes of score
                                                                                                                                                                                                 ; CODE XREF: add_bonus_and_update_high_score+18|j
                                       loc_0_52E:
                                                                                                                                                                                                    get score BCD pair
add bonus BCD pair
adjust for BCD
                                                                             ld
adc
daa
                                                                                                a, (de)
a, (hl)
                                                                             ld
inc
                                                                                                                                                                                                 ; update score BCD pair
                                                                                                (de), a
                                                                                                de
hl
                                                                                                                                                                                                ; next byte ; loop through score
                                                                              inc
                                                                             dinz
                                                                                                 loc 0 52E
                                                                             push
dec
ld
                                                                                                        (current_player_D)
                                                                              call
                                                                                                 display_player_A_score
                                                                             pop
dec
                                                                                                hl, #high_score+2
b, #3
                                                                              1d
                                                                                                                                                                                                ; MSB
; 3 bytes to compare
                                                                             ld
                                       loc_0_545:
                                                                                                                                                                                                    CODE XREF: add_bonus_and_update_high_score+31|j
                                                                                                a, (de)
(hl)
                                                                                                                                                                                                ; get byte from score
; less than high score?
; yes, return
; greater, we have a high score
                                                                             ld
                                                                             cp
ret
                                                                                                 NZ, new_high_score
                                                                              jp
dec
                                                                                                 de
hl
                                                                             dec
djnz
                                                                                                                                                                                                ; same, check next byte ; loop through 3 bytes
                                                                                                loc_0_545
                                                                             ret
                                      new_high_score:
                                                                                                                                                                                                 ; CODE XREF: add_bonus_and_update_high_score+2C<sup>†</sup>j
                                                                            call
                                                                                                 current_player_score_DE
                                                                             ld
                                                                                                hl, #high_score
                                                                                                                                                                                                 ; CODE XREF: add_bonus_and_update_high_score+3E|j
                                       update_high_score:
                                                                                                 a, (de)
(hl), a
                                                                                                                                                                                                ; get score byte
; copy to high score
                                                                             ld
                                                                             ld
                                       djnz update_high_score
jp display_high_score
; End of function add_bonus_and_update_high_score
                                                                                                                                                                                                ; loop through 3 bytes
                                              S U B R O U T I N E
0.55F

0.55F

0.55F

11 B2 60

0.55F

0.562 3A 0D 60

0.565 A7

0.566 C8

0.56A C9

0.56A

0.56B

0.56B

0.56B

0.56B

0.56B

0.56B

0.56B

0.56B
                                                                                                                                                                                                ; CODE XREF: add_bonus_and_update_high_score+2\uparrowp; add_bonus_and_update_high_score+34\uparrowp
                                       current_player_score_DE:
                                                                                                 de, #pl_score
                                                                                                 a, (current_player_D)
                                                                              1d
                                                                             and
ret
ld
                                                                                                                                                                                                ; player one?
; yes, return
                                                                                                de, #p2_score
                                                                             ret
                                       ; End of function current_player_score_DE
                                                 SUBROUTINE TO STATE OF STATE O
; CODE XREF: add_bonus_and_update_high_score+1F\uparrowp; display_score_or_high_score+11\nmidj
                                                                                                                                                                                                ; CODE XREF: display_score_or_high_score+17\mid ; screen position for score
                                                                                                                                                                                                ; CODE XREF: display_player_A_score+5<sup>†</sup>j
; display_player_A_score+B<sup>†</sup>j ...
                                                                                                                                                                                                 ; column address delta
                                                                                                                                                                                                ; 3=6 digits
                                                                                                                                                                                                ; CODE XREF: display_player_A_score+25|;
; display_credits+11|;
; get bcd digit pair
                                                                                                                                                                                                ; shift high nibble
                                                                                                                                                                                                ; low nibble
                                                                                                                                                                                                ; next digit pair
; loop through 6 digits
                                                                                                display_B_bcd_digit_pairs
                                       ; SUBROUTINE CONTINE
                                                                                                                                                                                                     CODE XREF: display_player_A_score+1D^p
                                                                                                                                                                                                 ; display_player_A_score+21\(^p\)
; low nibble only
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
0595 DD 77 00
0598 DD 19
059A C9
059A
059B
059B
059B
059B
                                                                                                                      ; display digit
; next column
                                                           0(ix), a
                                                           ix, de
                                               add
                       ret; End of function display_score_digit
                            S U B R O U T I N E
059B FE 03

059B FE 03

059B O59B O5

05AD F5

05AD F5

05A1 21 B2 60

05A4 A7

05A8 21 B5 60

05AB O5AB O5AB

05AB FE 02

05AB C2 B3 05

05B0 C2 B3 05

05B0 C2 B3 05

05B3 AF

05B4 77

05B7 23

05B6 77

05B7 23

05B6 77
                                                                                                                      ; CODE XREF: zero_score_or_high_score+24|p; DATA XREF: 0000:0309|o; zero all scores?
                        zero_score_or_high_score:
                                                           #3
NC, loc_0_5BD
                                                                                                                      ; yes, skip
                                                jр
                                               push
ld
                                                           af
hl, #pl_score
                                               and
                                                           a
Z, loc_0_5AB
                                                jp
ld
                                                           hl, #p2_score
                        loc_0_5AB:
                                                                                                                      ; CODE XREF: zero_score_or_high_score+A<sup>†</sup> j
                                                Cρ
                                                           NZ, loc_0_5B3
hl, #high_score
                        loc_0_5B3:
                                                                                                                      ; CODE XREF: zero_score_or_high_score+121j
                                                xor
ld
                                                           (hl), a
                                                inc
                                                           (hl), a
                                                14
                                                inc
ld
                                                           hl (hl), a
                                               pop
display_score_or_high_score
                                                                                                                      ; CODE XREF: zero_score_or_high_score+2^j
                        loc 0 5BD:
                                                                                                                      ; zero_score_or_high_score+29|;
; next score to zero
                                               dec
push
                                                           af
                                                call
                                                           zero_score_or_high_score
                                               pop
ret
                                                           af
Z
                                                                                                                      ; return when done
                                                           loc 0 5BD
                                                                                                                      ; zero next score
                                                jr
                        ; End of function zero_score_or_high_score
                        ; SUBROUTINE
                                                                                                                         CODE XREF: zero_score_or_high_score+1F<sup>†</sup>j
                       display_score_or_high_score:
                                                                                                                      ; display_score_or_high_score+1C|p
; DATA XREF: ...
                                                           #3
Z, loc_0_5E0
de, #p1_score+2
                                               jp
ld
                                                and
                                                           a
Z, loc_0_5D5
de, #p2_score+2
                                               jp
ld
                        loc_0_5D5:
                                                                                                                      ; CODE XREF: display_score_or_high_score+9<sup>†</sup>j
                                                ср
                                                           NZ, display player A score
                                               qŗ
                        display_high_score:
                                                                                                                      ; CODE XREF: add_bonus_and_update_high_score+40\uparrowj
                                                           de, #high_score+2
                                                           display_score_at_hs_location
                                                jр
                        loc_0_5E0:
                                                                                                                      ; CODE XREF: display_score_or_high_score+2fj
; display_score_or_high_score+2fj
                                               dec
                                                           a
af
display_score_or_high_score
                                               push
                                                call
                                               pop
ret
                                                           af
Z
                                                            loc_0_5E0
                        jr loc_0_5E0
; End of function display_score_or_high_score
                        ; SUBROUTINE SUBROUTINE
                                                                                                                      ; CODE XREF: display_credits+2|p; display_start_1P_2P_get_selectio+18|p; DATA XREF: ...
                       print_message_A:
                                               ld
add
                                                           hl, #message_table
a, a
af
#0x7F; ' '
                                                                                                                      ; convert entry to offset
                                               push
and
                                                                                                                      ; mask off 'wipe' bit
                                                          e, a
d, #0
hl, de
e, (hl)
                                               ld
ld
                                                                                                                      ; DE = offset ; pointer to entry
                                                add
                                               ld
inc
ld
                                                           d, (hl)
de, hl
                                                                                                                      ; DE = entry (word)
                                                ex
                                               ld
inc
ld
                                                           e, (hl)
hl
                                                          d, (hl)
                                                                                                                      ; DE = screen address to print
; HL = message text
; screen column address inc value
; DE = text, HL = screen address
                                                inc
                                                           bc, #0xFFE0 de, hl
                                               ld
ex
                                                                                                                      ; CODE XREF: print_message_A+26|j
; get message character
; end of message?
                        loc_0_600:
                                                           a, (de)
#0x3F; '?'
Z, pop_hl_ret
(h1), a
                                                ср
                                                                                                                      ; yes, exit
; display character on screen
; restore original entry index
; not wiping, skip
                                               jp
ld
                                               pop
                                                           af
NC, loc_0_60C
                                               jr
ld
                                                           (hl), #0x10
                                                                                                                      ; display space character on screen
                                                                                                                      ; CODE XREF: print_message_A+1F<sup>†</sup>j; store original entry index; next message character; next screen location; loop through message
                       loc_0_60C:
                                               push
                                               inc
add
                                                           hl, bc
loc_0_600
                        jr loc_0_600; End of function print_message_A
                       display_credits_if_attract_mode:
ld a, (attr
                                                                                                                      ; DATA XREF: 0000:030F1o
0611 3A 07 60
                                                          a, (attract_mode_flag)
0614 0F
0615 D0
0616
0616
                              SUBROUTINE CONTINE
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
0616
; CODE XREF: display_start_1P_2P_get_selectio+1B|p; 0000:141E|p ...; "credit"
                         display_credits:
                                                  call
ld
ld
                                                              print_message_A
hl, #no_of_credits
de, #0xFFE0
ix, #VRAM_start+0xBF
                                                                                                                             ; column address delta
; screen position of credits
; 1=2 digits
                                                   ld
                          ld b, #1
ld b, #1
jp display_B_bcd_digit_pairs
; End of function display_credits
                         update_bonus_timer:
                                                                                                                              ; DATA XREF: 0000:0311\uparrow o
                                                                                                                              ; add bonus to score?
                                                  and
                                                              Z, loc_0_691
a, (bonus_timer)
                                                                                                                             ; yes, skip
                                                                                                                              ; zero?
                                                  and
                                                              NZ, bonus_timer_tick
a, (bonus_timer_expired)
a
NZ
                                                  jp
ld
and
                                                                                                                             ; no, skip
                                                                                                                              ; expired?
                                                                                                                             ; yes, exit ; initialise bonus timer here
                                                  ret
ld
                                                              a, (bonus_timer_init_value) bc, #0xA
                                                  ld
                         loc_0_640:
                                                                                                                             ; CODE XREF: 0000:0642-1
                                                  inc
                                                   sub
                                                              c
NZ, loc_0_640
a, b
                                                  jp
ld
                                                  rlca
rlca
rlca
                                                   rlca
                                                               (bonus_timer), a
hl, #bonus_graphic_tiles
de, #VRAM_start+0x65
a, #6
                                                  ld
ld
                                                                                                                             ; set initial bonus timer value
                                                                                                                             ; screen position for bonus ; 6 columns of tiles to display
                                                   ld
                                                  ld
                                                                                                                              ; CODE XREF: 0000:0664|j
                          loc_0_655:
                                                              ix, #0x1D
bc, #3
                                                                                                                             ; column inc
; 3 tiles to display
; display bonus tiles
; next column
                                                  1d
                                                  ld
                                                  ldir
add
                                                               ix, de
                                                  push
                                                               ix
de
                                                                                                                             ; screen position
; done?
; no, loop
                                                   pop
dec
                                                               a
NZ, loc_0_655
                                                  jp
ld
                                                               a, (bonus_timer)
                         display_bonus_timer:
                                                                                                                             ; CODE XREF: 0000:06B5|j
                                                  ld
                                                  and
ld
ld
                                                               #0xF
                                                               b, a
                                                                                                                             ; B=low nibble
                                                  rrca
                                                  rrca
rrca
rrca
                                                                                                                             ; C=high nibble
; skip if more than 9s left
                                                  and
                                                               #0xF
                                                              #0xF
NZ, display_bonus_digits
a, #3
(bg_music), a
a, #0x70; 'p'
(VRAM_start+0x86), a
(VRAM_start+0x86), a
                                                  jp
ld
ld
                                                                                                                             ; purple '0'; '0'; '0'
                                                  ld
ld
ld
add
                                                              a, b
b, a
a, #0x10
                                                                                                                                2nd digit to 'ascii'
                                                  1d
                                                                                                                             ; store
; <space>
                                                  ld
                                                                                                                              ; CODE XREF: 0000:0675<sup>†</sup>j
                         display_bonus_digits:
                                                                                                                             display 1st digit; restore 2nd digit; display 2nd digit
                                                  ld
ld
                                                               (VRAM_start+0xE6), a
                                                               (VRAM_start+0xC6), a
                                                  ret
                         loc_0_691:
                                                                                                                             ; CODE XREF: 0000:062B|j
                                                               a, (bonus_timer)
                                                  ld
and
                                                                #0xF
                                                  push
call
                                                               add_bonus_and_update_high_score
                                                  pop
ld
                                                  rrca
rrca
rrca
rrca
and
069F OF
06A0 OF
06A1 E6 OF
                                                               #0xF
06A1 E6 0F

06A3 C6 0A

06A5 C3 1C 05

06A8

06A8 D6 01

06AA 20 05

06AC 21 B8 63

06AF 36 01

06B1

06B1

06B1 27

06B2 32 8C 63
                                                   add
                                                                  #0xA
                                                               add_bonus_and_update_high_score
                          bonus_timer_tick:
                                                                                                                             ; CODE XREF: 0000:063211
                                                   sub
                                                               #1
NZ, loc_0_6B1
hl, #bonus_timer_expired
(hl), #1
                                                   jr
ld
                                                                                                                             ; CODE XREF: 0000:06AA1j
                          loc 0 6B1:
                                                  daa
06B1 27
06B2 32 8C 63
06B5 C3 6A 06
06B8
06B8
06B8
                                                               (bonus_timer), a display_bonus_timer
                                                   ld
                                                  jр
                              SUBROUTINE ....
; CODE XREF: 0000:01DC p
                          display_lives_and_level:
                                                                                                                                check_and_award_bonus+2C<sup>†</sup>j
DATA XREF: ...
store alive flag
                                                  ld
                                                               с, а
8
                                                  rst
ld
ld
ld
                                                                                                                                return if attract mode
                                                              b, #6
de, #0xFFE0
h1, #VRAM_start+0x383
                                                                                                                              ; max icons
; column delta
                                                                                                                             ; CODE XREF: display_lives_and_level+D|j;
<space>
; next column
; wipe 6 icons
                         loc_0_6C2:
                                                              (hl), #0x10
hl, de
loc_0_6C2
                                                  add
djnz
06C5 10 FB
                                                              a, (lives_left)
06C7 3A 28 62
06CA 91
06CB CA D7 06
06CE 47
                                                  ld
sub
                                                                                                                              ; decrement if mario alive
                                                  jp
ld
                                                               Z, loc_0_6D7
                                                                                                                              ; none to display, skip
; number of lives
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
06CF 21 83 77
                                                                         hl, #VRAM_start+0x383
                                                           ld
                                                                                                                                                  ; screen location
06CF 21 83 77

06D2

06D2

06D2 36 FF

06D4 19

06D5 10 FB

06D7

06D7

06D7 21 03 75

06D8 36 10
                                                                                                                                                  ; CODE XREF: display_lives_and_level+1D|;
; mario icon
; next screen location
                             loc_0_6D2:
                                                                         (hl), #0xFF
hl, de
loc_0_6D2
                                                                                                                                                  ; loop for no. of lives
                                                           djnz
                                                                                                                                                  ; CODE XREF: display_lives_and_level+13<sup>†</sup>j
                             loc_0_6D7:
                                                                         hl, #VRAM_start+0x103
(hl), #0x1C
hl, #VRAM_start+0xE3
(hl), #0x34; '4'
a, (level)
06DA 36 1C
06DC 21 E3 74
06DF 36 34
06E1 3A 29 62
                                                                                                                                                  ; 'L'
                                                           ld
                                                           ld
ld
ld
                                                                         a, (100
#100
C, loc_0_6ED
a, #99
06E4 FE 64
06E6 38 05
06E8 3E 63
06EA 32 29 62
                                                           cp
jr
ld
                                                                                                                                                  ; too high?
; no, skip
; max out at 99
                                                                         a, #99
(level), a
                                                                                                                                                  ; adiust
                                                           ld
06EA 32 29 62

06ED

06ED 01 0A FF

06F0 06F0

06F0 04

06F1 91

06F2 D2 F0 06

06F5 81

06F6 32 A3 74

06F9 78

06FA 32 C3 74
                                                                                                                                                  ; CODE XREF: display_lives_and_level+2E<sup>†</sup>j
                              loc_0_6ED:
                                                           ld
                                                                         bc, #0xFF0A
                              loc_0_6F0:
                                                                                                                                                  ; CODE XREF: display_lives_and_level+3A|j
                                                           sub
                                                                         NC, loc_0_6F0
a, c
(VRAM_start+0xA3), a
                                                           jp
add
ld
                                                                                                                                                  ; level tens digit
                                                                                                                                                  ; level units digit
                                                           1d
06FA 32 C3 74
                                                           14
                                                                         (VRAM_start+0xC3), a
ret; End of function display_lives_and_level
                                                                                                                                                  ; DATA XREF: 0000:00D0↑o
                              vector_on_ingame_sequencer:
                                                          ld
                                                                         a, (main_sequencer)
                                                                         0x28
                                                           .dw cls_and_set_screen_flip
.dw init_Pl_ingame_data
.dw display_player_I_and_2P_score
.dw init_P2_ingame_data
.dw display_player_II_2UP_and_2P_sco
.dw display_IUP_and_ligh_score
.dw wait_cls_and_check_seen_intro
.dw vector_on_intro_sequence
.dw draw how bight cap very get
                                                                                                                                                   ; Jump table
                                                           .dw vector_on_intro_sequence
dw draw_how_high_can_you_get
.dw 0
.dw wait_init_and_draw_level
.dw init_mario
.dw gameplay
.dw died_in_gameplay
.dw save_Pl_ingame_data
.dw save_P2_ingame_data
.dw save_rr
                                                           .dw pl_game_over
.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
.dw cls_and_set_seg_for_curr
                                                            .dw cls_and_set_seq_for_current_play
                                                            .dw 0
                                                           .dw 0
                                                           .dw 0
                                                            .dw 0
                              chk_credits_and_vector_on_attrac:
                                                                                                                                                  ; DATA XREF: 0000:00CCTo
                                                                         hl, #main_sequencer
a, (no_of_credits)
                                                           ld
                                                           and
                                                                                                                                                   ; any credits?
                                                           jp
ld
                                                                         NZ, inc_nmi_sequencer
a, (hl)
0x28
                                                                                                                                                  ; yes, skip
                                                           rst
                                                                                                                                                   ; go!
                                                           .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 title_screen_flash
                                                           .dw title_screen_no_flash
                                                                                                                                                   ; CODE XREF: 0000:0743<sup>†</sup>j
                              inc_nmi_sequencer:
                                                                         (hl), #0
hl, #nmi_sequencer
(hl)
                                                                                                                                                   ; reset game sequencer
                                                           ld
                                                                                                                                                  ; inc nmi_sequencer
                              ; DATA XREF: 0000:074A\u00e1o o ; wait for 16-bit countdown
                                                           xor
                                                           1d
                                                                          (unk 0 6392), a
                                                           ld
ld
ld
                                                                         (unk_0_63A0), a
a, #1
(level_type), a
                                                                         (level), a
(lives_left), a
init_and_draw_level
                                                           ld
                                                           jр
                              insert_coin_screen:
                                                                                                                                                   ; DATA XREF: 0000:0748<sup>†</sup>o
                                                                         hl, #palette_bank (hl), #0
                                                           ld
                                                           1d
                                                          inc
ld
ld
                                                                         hl
(hl), #0
de, #0x31B
queue_fg_vector_fn
                                                                                                                                                   ; palette bank = 0
                                                                                                                                                   ; print_message_1B "insert coin"
                                                           call
inc
call
                                                                         e
queue_fg_vector_fn
queue_hs_table_for_display
hl, #eight_bit_countdown
(hl), #2
hl
(hl)
clear_visit1
                                                                                                                                                   ; print_message_1C "player coin"
                                                           call
                                                           ld
                                                           ld
                                                                                                                                                  ; main_sequencer
; next sequence (1)
                                                           inc
                                                           call
                                                                         clear_visible_area_and_sprites
                                                           call
ld
                                                                         display_1UP
a, (two_players)
                                                                                                                                                  ; last game 2P?
; yes, display 2UP
                                                           cp
call
                                                                         Z, display_2UP
```

```
de, (coinage)
hl, #VRAM_start+0x16C
display_coinage
                                                                                  ld
                                                                                  call
                                         display_coinage:
                                                                                                       (hl), e
                                                                                                       (hl), d
                                                                                   ld
                                                                                                      a, d
#0xA
NZ, loc_0_7BC
(h1), a
                                                                                  1d
                                                                                  sub
                                                                                  jp
ld
                                                                                                       (VRAM_start+0x18E), a
                                         loc 0 7BC:
                                                                                                                                                                                                           ; CODE XREF: 0000:07B41i
                                                                                                       de, #0x201
hl, #VRAM_start+0x28C
                                                                                  1d
                                                                                  ret
                                          cls_and_next_sequence
                                                                                                      clear_visible_area_and_sprites
hl, #main_sequencer
(hl)
                                                                                                                                                                                                             ; DATA XREF: 0000:075210
                                                                                 call
ld
                                                                                                                                                                                                            ; next sequence (6)
                                          title_screen_flash:
                                                                                                      a, (title_flash_tmr_1) #0
                                                                                                                                                                                                            ; DATA XREF: 0000:0754<sup>†</sup>o
                                                                                  ld
                                                                                                                                                                                                            ; time to flash?
                                                                                  ср
                                                                                                     #U
NZ, loc_0_82D
a, #0x60; '`'
(title_flash_tmr_1), a
c, #0x5F; '_'
                                                                                  jp
ld
ld
                                                                                                                                                                                                            ; no, skip
                                                                                                                                                                                                            ; init tmr1
                                                                                  ld
                                                                                                                                                                                                            ; CODE XREF: 0000:0838|j; time to flash?
                                          loc_0_7DA:
                                                                                                       #0
                                                                                  ср
07DC CA 3B 08
07DF 21 86 7D
07DE 23 60 00
07E4 79
07E5 CB 07
07E7 30 02
07E9 36 01
07EB 07EB 07EB 07EB 07EB 07EB 07ED 07EC 36 01
07F4 30 02
07F2 36 01
07F4 30 02
07F2 36 01
07F4 32 8B 63
07F7 21 08 3D
07FA 3C 8B 07F7 22 08 00
07FA 3C 8B 0
                                                                                                      Z, loc_0_83B
hl, #palette_bank
(hl), #0
                                                                                  jp
ld
ld
                                                                                                                                                                                                            ; no, skip
                                                                                  ld
                                                                                                       a, c
a
                                                                                  rlc
                                                                                                       NC, loc_0_7EB (hl), #1
                                                                                                                                                                                                            ; palette 1/3
                                         loc_0_7EB:
                                                                                                                                                                                                            ; CODE XREF: 0000:07E714
                                                                                                      hl
(hl), #0
                                                                                                                                                                                                            ; palette 0/1
                                                                                  ld
                                                                                  rlc
                                                                                                       NC, loc_0_7F4 (hl), #1
                                                                                                                                                                                                            ; palette 2/3
                                                                                                                                                                                                            ; CODE XREF: 0000:07F0<sup>†</sup> †
                                         loc_0_7F4:
                                                                                  14
                                                                                                     (title_flash_tmr_2), a
hl, #title_screen
                                                                                  ld
                                          ; CODE XREF: 0000:0809|j; girder tile; get number of tiles to display
                                                                                                     e, (hl)
hl
d, (hl)
                                                                                  ld
                                                                                  inc
ld
                                                                                                                                                                                                            ; DE = screen address
                                                                                                                                                                                                             ; CODE XREF: 0000:0803|j
                                         loc_0_801:
                                                                                                                                                                                                                display character
next line
                                                                                  1d
                                                                                                       (de), a
                                                                                  inc
                                                                                                       loc_0_801
                                                                                  djnz
                                                                                                                                                                                                             ; loop
                                                                                                     hl
a, (hl)
#0
                                                                                                                                                                                                             ; next entry ; get entry byte ; done?
                                                                                  inc
ld
                                                                                 cp
jp
ld
call
inc
                                                                                                      NZ, display_donkey_kong_title
de, #0x31E
queue_fg_vector_fn
de
                                                                                                                                                                                                            ; no, loop
; print_message_1E
                                                                                                                                                                                                            ; print message 1F
                                                                                  call
ld
call
                                                                                                     queue_fg_vector_fn
h1, #dk_thrash_right_spr
copy_sprites_2_11_data
display_tm
                                                                                  call
                                                                                                       hl, #soft_sprite_ram+8
                                                                                                                                                                                                           ; sprite #2, y coord
                                                                                                     nn, #801_sprite_ram+8
c, #68
0x38
hl, #soft_sprite_ram+0xB
c, #120
0x38
                                                                                  1d
                                                                                                                                                                                                            ; add 68 to y coord for 10 sprites ; sprite \#2, x coord
                                                                                  rst
ld
ld
                                                                                                                                                                                                            ; add 120 to xs coord for 10 sprites
                                                                                  rst
ret
                                          loc_0_82D:
                                                                                                                                                                                                            ; CODE XREF: 0000:07D0†j
                                                                                  ld
ld
ld
                                                                                                      a, (title_flash_tmr_2)
c, a
a, (title_flash_tmr_1)
                                                                                  dec
                                                                                                       (title_flash_tmr_1), a loc_0_7DA
                                                                                  ld
                                                                                   jp
                                         loc_0_83B:
                                                                                                                                                                                                            ; CODE XREF: 0000:07DC1j
                                                                                  ld
ld
                                                                                                      hl, #eight_bit_countdown
(hl), #2
                                                                                  inc
                                                                                                                                                                                                            ; game_sequencer
                                                                                                     hi (hl)
hl, #title_flash_tmr_1 (hl), #0
                                                                                  inc
ld
                                                                                  1d
                                                                                  inc
                                                                                  ld
                                                                                                       (hl), #0
                                                                                                                                                                                                            ; DATA XREF: 0000:0756 o ; wait for 16-bit countdown
                                          title_screen_no_flash:
                                                                                                       0x20
                                                                                 rst
                                                                                                      hl, #main_sequencer (hl), #0
                                                                                  1d
                                                                                  1d
                                                                                                                                                                                                            ; reset game sequencer
                                                                                 ret
                                          ; SUBROUTINE SUBROUTINE
                                                                                                                                                                                                            ; CODE XREF: 0000:0986 p; 0000:196B p
                                         clear tiles and sprites:
                                                                                                     hl, #VRAM_start
c, #4
                                                                                                                                                                                                             ; 4x256 bytes to clear
                                         loc_0_857:
                                                                                                                                                                                                            ; CODE XREF: clear_tiles_and_sprites+E|j
```

File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
b, #0
a, #0x10
                                                                                                                        ; 256 bytes to clear
                                                ld
                                                                                                                        ; space character
                        loc_0_85B:
                                                                                                                        ; CODE XREF: clear_tiles_and_sprites+B|;
; display space
                                                            (hl), a
                                                inc
                                                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
                        loc_0_868:
                                                                                                                        ; CODE XREF: clear_tiles_and_sprites+1E-j
                                                1d
                                                            b, #192
                                                                                                                        ; 192 bytes to clear
                                                                                                                        ; CODE XREF: clear_tiles_and_sprites+1B|j
; clear soft sprite ram byte
; next address
; clear 192 bytes
                        loc 0 86B:
                                                1d
                                                            (hl), a
                                                inc
djnz
                                                            loc_0_86B
                                                dec
                                                jp
ret
                                                            NZ, loc_0_868
                                                                                                                        ; clear 384 bytes
                        ; End of function clear tiles and sprites
                        ; SUBROUTINE
                                                                                                                        ; CODE XREF: 0000:01C3\p; 0000:0795\p ...
                        clear_visible_area_and_sprites:
                                                           hl, #VRAM_start+4
                                                            c, #32
                                                1d
                                                                                                                        ; 32 columns
                        loc_0_879:
                                                                                                                        ; CODE XREF: clear_visible_area_and_sprites+12|j
                                                           b, #28
a, #0x10
de, #4
                                                                                                                        ; <space>
; bottm-to-top next column increment
                                                ld
                                                                                                                        ; CODE XREF: clear_visible_area_and_sprites+E|j
; display space character
; next line
                        loc 0 880:
                                                            (hl), a
                                                            loc_0_880
                                                                                                                        ; loop screen height
; next column
                                                djnz
                                                add
                                                dec
jp
ld
                                                                                                                        ; done all columns?
; no, loop
                                                            NZ, loc_0_879
                                                           N1, 10C_U_8/9
hl, #VRAM_start+0x122
de, #32
c, #2
a, #0x10
                                                14
                                                                                                                        ; <space>
                        loc_0_893:
                                                                                                                        ; CODE XREF: clear_visible_area_and_sprites+29|j
                                                                                                                        ; CODE XREF: clear_visible_area_and_sprites+23\frac{1}{2}; display space character
; next column
; loop for 14 columns
                        loc_0_895:
                                                            (hl), a
hl, de
loc_0_895
                                                ld
                                                add
djnz
                                                ld
dec
jp
ld
                                                            hl, #VRAM_start+0x123
                                                            NZ, loc_0_893
                                                                                                                        ; repeat at new location
                                                           hl, #soft_sprite_ram
b, #0
a, #0
                                                ld
                                                                                                                        ; 256 bytes to clear ; clear to 0x00
                                                                                                                       ; CODE XREF: clear_visible_area_and_sprites+35\j; clear soft sprite ram byte; next location; do 256 bytes; 128 bytes to clear
                        loc 0 8A7:
                                                ld
                                                            (hl), a
                                                            hl
loc_0_8A7
                                                djnz
ld
                                                            b, #128
                                                                                                                        ; CODE XREF: clear_visible_area_and_sprites+3B|;
; clear_soft_sprite ram byte
                        loc 0 8AD:
08AD 77
08AE 23
08AF 10 FC
08B1 C9
08B1 C9
08B1 08B2
08B2 3A 0A 60
08B5 EF
08B6 BA 08
08B5 F8 08
08BA 08BA 08BA 08BA 08BA 08BA 60BA AF
08BA 08BA 2F 08BC 11 0C 03
                                                ld
                                                            (hl), a
                                                                                                                        ; next location
; clear 128 bytes
                                                inc
                                                djnz
                                                            loc_0_8AD
                        ret
; End of function clear_visible_area_and_sprites
                        vector_on_credit_sequencer:
                                                                                                                        ; DATA XREF: 0000:00CETo
                                                           a, (main_sequencer)
0x28
                                                                                                                        ; go!
                                                .dw display_1P_2P_start_screen .dw process_1P_2P_start
                                                                                                                        ; jump table
                        display_1P_2P_start_screen:
call clear_visible_area_and_sprites
                                                                                                                        ; DATA XREF: 0000:08B6↑o
                                                call
xor
                                                           a (attract_mode_flag), a de, #0x30c queue_fg_vector_fn hl, #main_sequencer (hl)
08BE 32 07 60
08C1 11 0C 08
08C4 CD 9F 30
08C7 21 0A 60
08CA 34
08CB CD 65 09
08CE AF
08CB 72 1 86 7D
08D5 77
08D5
08D5 08D5
                                                                                                                        ; clear attract mode flag
                                                ld
                                                1d
                                                                                                                        ; print_message_0C
                                                call
ld
                                                inc
                                                call
xor
ld
                                                            queue_hs_table_for_display
                                                           hl, #palette_bank (hl), a
                                                1d
                                                            (hl), a
                                                                                                                        ; palette bank 0
                                    SUBROUTINE
                                                                                                                        ; CODE XREF: 0000:08F8|p; mask for START1; "ONLY 1 PLAYER BUTTON"
08D5
08D5 06 04
                        b, #4
e, #return_if_attract_mode+1
a, (no_of_credits)
08D5 06 04

08D7 1E 09

08D9 3A 01 60

08DC FE 01

08DE CA E4 08

08E1 06 0C

08E3 1C
                                                ld
ld
                                                            #1
                                                ср
                                                            Z, loc_0_8E4
b, #0xC
                                                                                                                        ; mask for START1/START2
; "1 or 2 PLAYERS"
0883 1C
0884
0884 3A 1A 60
0887 E6 07
0889 C2 F3 08
08EC 7B
08ED CD E9 05
08F0 CD 16 06
08F3 08F3 3A 00 7D
08F6 A0
08F7 C9
                                                inc
                        loc_0_8E4:
                                                                                                                        ; CODE XREF: display_start_1P_2P_get_selectio+9^j
                                                            a, (gen_purpose_timer) #7
                                                ld
and
                                                            NZ, loc_0_8F3
                                                jp
ld
                                                            display credits
                                                call
                        loc_0_8F3:
                                                                                                                        ; CODE XREF: display_start_1P_2P_get_selectio+14\uparrow j ; read IN2
                                                ld
                                                            a, (in2_snd_latch)
                                                and
                                                                                                                        ; only START1/START2
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
                                          ; End of function display_start_1P_2P_get_selectio
08F7
08F7
08F8
08F8
08F8
08F8 CD D5 08
08FB FE 04
08FD CA 06 09
0900 FE 08
                                                                                                                                                                                                          ; DATA XREF: 0000:08B810
                                         process_1P_2P_start
                                                                                                      display_start_1P_2P_get_selectio
                                                                                 call
                                                                                                      #4
Z, start_1_selected
#8
                                                                                                                                                                                                           ; START1?
; yes, skip
; START2?
                                                                                 cp
jp
                                                                                  ср
0900 FE 08
0902 CA 19 09
0905 C9
0906
                                                                                 jp
ret
                                                                                                      Z, start_2_selected
                                                                                                                                                                                                           ; yes, skip
0906 | 0906 | CD | 77 | 09 | 0907 | 0910 | CD | 77 | 09 | 0919 | 0919 | CD | 77 | 09 | 0926 | CC | 0927 | 21 | 5E | 09 | 0926 | CC | 0927 | 21 | 5E | 09 | 0926 | CC | 0927 | 21 | 5E | 09 | 0926 | CD | 9F | 30 | 0938 | CD | 74 | 08 | 0938 | CD | 75 | 0946 | CD | 9F | 30 | 0954 | CD | 9F | 30 | 0955 | CD | 9F | 30 | 0955 | CD | 0956 | CD | 0956 | CD | 0956 | CD | 0956 | CD | 0957 | CD | 9F | 30 | 0956 | CD | 9F | 30 | 09576 | CD | 9977 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 | 09777 
                                          \verb|start_1_selected|:
                                                                                                                                                                                                           ; CODE XREF: 0000:08FD 1
                                                                                                     dec_credits_and_display
h1, #p2_ingame_data
b, #8
                                                                                 call
ld
                                                                                  ld
                                          loc_0_90F:
                                                                                                                                                                                                           ; CODE XREF: 0000:0911|j
                                                                                 ld
                                                                                                      (hl), a
                                                                                 inc
djnz
                                                                                                     loc_0_90F
hl, #0
start_game
                                                                                  1d
                                                                                  jp
                                                                                                                                                                                                           ; CODE XREF: 0000:0902<sup>†</sup> †
                                          start_2_selected:
                                                                                 call
call
ld
ld
                                                                                                     dec_credits_and_display
dec_credits_and_display
de, #p2_ingame_data
a, (lives_per_game)
                                                                                                      (de), a
                                                                                 1d
                                                                                 inc
ld
ld
                                                                                                     hl, #game_init_data
bc, #7
                                                                                 ldir
ld
call
ld
                                                                                                     de, #0x101
queue_fg_vector_fn
h1, #0x100
                                                                                                                                                                                                           ; zero_score_or_high_score
                                                                                                                                                                                                           ; players=2, current_player=1
                                                                                                                                                                                                           ; CODE XREF: 0000:0916↑j
; players and current player
                                          start_game:
                                                                                                     (current_player_E), hl
clear_visible_area_and_sprites
de, #pl_ingame_data
a, (lives_per_game)
                                                                                 ld
                                                                                 call
                                                                                 ld
ld
                                                                                                     a, (live
(de), a
                                                                                 1d
                                                                                 inc
ld
ld
ldir
                                                                                                     hl, #game_init_data
bc, #7
                                                                                                                                                                                                          ; 7 bytes
                                                                                 ld
call
                                                                                                     de, #0x100
queue_fg_vector_fn
                                                                                                                                                                                                           ; zero_score_or_high_score
                                                                                  xor
                                                                                                     (main_sequencer), a
a, #3
(nmi_sequencer), a
                                                                                  1d
                                                                                 ld
ld
                                                                                 ret
                                                                                                                                                                                                           ; DATA XREF: 0000:0927<sup>†</sup>o
; 0000:0946<sup>†</sup>o
                                          game_init_data: .db 1
                                                                                                                                                                                                            ; Start of game level init data
                                                                                 .dw level_seq_1 .db 1, 0, 0, 0
                                          ; SUBROUTINE
                                                                                                                                                                                                           ; CODE XREF: 0000:078B1p; 0000:08CB1p
                                         queue_hs_table_for_display:
                                                                                                     de, #0x400
queue_fg_vector_fn
de, #0x314
b, #6
                                                                                 14
                                                                                                                                                                                                           ; display_credits_if_attract_mode
                                                                                  call
                                                                                                                                                                                                           ; print_message_14 (1st high score)
; 1-5 and "RANK SCORE NAME"
                                                                                  ld
                                                                                 ld
                                         loc_0_970:
                                                                                                                                                                                                           ; CODE XREF: queue_hs_table_for_display+F|j
                                                                                 call
                                                                                                     queue fg vector fn
                                                                                 inc
djnz
                                                                                                                                                                                                           ; next msg
; loop through messages
                                                                                                     loc_0_970
                                                                                  ret
                                          ; End of function queue_hs_table_for_display
0977
0977
0977
0977
21 01 60
0977 21 01 60
0977 35 99
0976 86
097D 27
097E 77
097F 11 00 04
0982 CD 9F 30
0985 C9
0985
0986
                                          ; SUBROUTINE SUBROUTINE
                                                                                                                                                                                                           ; CODE XREF: 0000:0906<sup>p</sup>; 0000:0919<sup>p</sup> ...
                                         dec_credits_and_display:
                                                                                                     hl, #no_of_credits
a, #0x99 ; 'Ö'
a, (hl)
                                                                                 ld
                                                                                  ld
                                                                                                                                                                                                           ; decrement credits
                                                                                 daa
                                                                                 ld
                                                                                                     (hl), a
de, #0x400
                                                                                 ld
                                                                                                                                                                                                            ; display_credits_if_attract_mode
                                                                                 call
                                                                                                     queue_fg_vector_fn
                                                                                 ret
                                          ; End of function dec_credits_and_display
0986
0986
0986
CD 52 08
0989 CD 1C 01
098C 11 82 7D
0991 12
0992 21 0A 60
0995 AA 0E 60
0998 A7
099C 36 01
099F C9
099F 099F
099F 099F 3A 26 60
                                          ; DATA XREF: 0000:07021o
                                                                                                    clear_tiles_and_sprites
                                                                                                     stop_sound
de, #flipscreen
a, #1
(de), a
hl, #main_sequencer
a, (current_player_E)
                                                                                 call
ld
                                                                                 ld
ld
                                                                                                                                                                                                           ; default flipscreen
                                                                                 ld
ld
                                                                                                                                                                                                           ; player 2?
; yes, skip
; ingame sequencer = 1
                                                                                  and
                                                                                                      a
NZ, loc_0_99F
                                                                                  jp
ld
                                                                                                      (hl), #1
                                                                                                                                                                                                           ; CODE XREF: 0000:09991j; get cabinet type; upright?; yes, skip; disable flipscreen
                                         loc_0_99F:
099F 3A 26 60
09A2 3D
09A3 CA A8 09
                                                                                 1d
                                                                                                      a, (upright)
                                                                                 dec
                                                                                                      a
Z, loc_0_9A8
                                                                                  jр
09A6 AF
09A7 12
09A8
09A8
                                                                                  xor
                                                                                 1d
                                                                                                      (de), a
                                                                                                                                                                                                           ; to hardware
                                        loc 0 9A8:
                                                                                                                                                                                                           ; CODE XREF: 0000:09A3†j
09A8 36 03
09AA C9
09AB
09AB
09AB
                                                                                 ld
                                                                                                     (hl), #3
                                                                                                                                                                                                           ; ingame sequencer = 3
                                         init_P1_ingame_data:
                                                                                                                                                                                                           ; DATA XREF: 0000:07041o
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
09AB 21 40 60

09AB 11 28 62

09B1 01 08 00

09B4 ED B0

09B6 2A 2A 62

09B9 7E

09BA 32 27 62

09BD 3A 0F 60

09CO A7

09C1 21 09 60

09C7 CA D0 09

09CA 36 78

09CC EB
                                                                                      hl, #p1_ingame_data
de, #lives_left
bc, #8
                                                                                                                                                                              ; player_current_data
; 8 bytes to copy
                                                                      1d
                                                                      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
ld
                                                                                      a, trwo_r:
a
hl, #eight_bit_countdown
de, #main_sequencer
Z, loc_0_9D0
(hl), #0x78; 'x'
de, hl
(hl), #2
                                                                                                                                                                              ; 1 player?
                                                                      and
                                                                      ld
ld
                                                                                                                                                                              ; yes, skip
; set 8-bit countdown
                                                                      jp
ld
09CA 36 78
09CC EB
09CD 36 02
09CF C9
09D0
09D0
09D0
09D0
                                                                      ex
ld
                                                                                                                                                                              ; next sequence (2)
                                                                                                                                                                              ; CODE XREF: 0000:09C7<sup>†</sup>j; set 8-bit countdown
                                   loc_0_9D0:
                                                                                       (hl), #1
de, hl
                                                                      ld
09D0 36 01

09D2 EB

09D3 36 05

09D5 C9

09D6

09D6

09D6

09D6 AF

09D7 32 86 7D

09DA 32 87 7D

09DA 32 87 7D

09DD 11 02 03

09E0 CD 9F 30

09E0 CD 9F 30
                                                                                       (hl), #5
                                                                      ld
                                                                                                                                                                              ; next sequence (5)
                                   ; DATA XREF: 0000:0706<sup>†</sup>o
                                                                                      (palette_bank), a (palette_bank+1), a de, #0x302 queue_fg_vector_fn de, #0x201
                                                                                                                                                                              ; palette bank 0
; display_message_02 "PLAYER (I)"
                                                                      ld
call
ld
                                                                                                                                                                              ; display_score_or_high_score (P2)
09E3 11 01 02
09E6 CD 9F 30
09E9 3E 05
09EB 32 0A 60
09EE
09EE
09EE
                                                                      call
ld
ld
                                                                                       queue_fg_vector_fn
a, #5
(main_sequencer), a
                                    ; USB SUBROUTINE
09EE
09EE 3E 02
09EE 09EE
09F0 32 E0 74
09F3 3E 25
                                                                                                                                                                              ; CODE XREF: 0000:07A01p
                                   display_2UP:
                                                                                                                                                                              ; 0000:0A2E|p; '2'
                                                                                      a, #2
(VRAM_start+0xE0), a
a, #0x25; '%'
(VRAM_start+0xC0), a
a, #0x20; ''
(VRAM_start+0xA0), a
                                                                      ld
ld
                                                                                                                                                                              ; 'U'
09F5 32 C0 74
09F8 3E 20
                                                                                                                                                                              ; 'P'
09FA 32 A0 74
09FD C9
                                                                      1d
09FD C9
09FD
09FD
09FE
09FE
09FE
09FE 21 48 60
                                   ; End of function display_2UP
                                    init_P2_ingame_data:
                                                                                                                                                                              ; DATA XREF: 0000:0708<sup>†</sup>o
                                                                                       hl, #p2_ingame_data
de, #lives_left
bc, #8
                                                                      ld
0A01 11 28 62
0A04 01 08 00
0A07 ED B0
0A09 2A 2A 62
0A0C 7E
0A0D 32 27 62
0A10 3E 78
0A12 32 0A 60
0A15 3E 04
0A17 32 0A 60
0A18 C9
0A1B
0A1B
0A1B
0A1B
0A1B AF
0A1C 32 86 7D
0A22 11 03 03
0A25 CD 9F 30
0A28 11 01 02
0A28 CD 9E 09
0A31 3E 05
                                                                     ld
ld
ldir
                                                                                                                                                                              ; player_current_data
; 8 bytes to copy
                                                                                      hl, (seq_data)
a, (hl)
(level_type), a
a, #0x78; 'x'
(eight_bit_countdown), a
                                                                                                                                                                              ; ptr current seq table
; get level type
; store as current
; init 8-bit countdown
                                                                      ld
                                                                      ld
ld
ld
                                                                      ld
                                                                      ld
                                                                                       a, #4
(main_sequencer), a
                                                                                                                                                                              ; next sequence (4)
                                                                      ld
ret
                                   display_player_II_2UP_and_2P_sco:
                                                                                                                                                                              ; DATA XREF: 0000:070A↑o
                                                                                      a (palette_bank), a (palette_bank+1), a de, #0x303 queue_fg_vector_fn de, #0x201 queue_fg_vector_fn display_2UP a. #5
                                                                      xor
ld
                                                                      ld
ld
                                                                                                                                                                              ; palette bank 0
; display_message_03 "PLAYER (II)"
                                                                      call
                                                                      1d
                                                                                                                                                                              ; display_score_or_high_score (P2)
                                                                      call
call
ld
                                                                                       a, #5 (main_sequencer), a
0A33 32 0A 60
0A36 C9
0A37
0A37
                                                                      ld
ret
                                  display_1UP_and_high_score:

1d de, #0x304

call queue_fg_vector_fn
1d de, #0x202

call queue_fg_vector_fn
1d de, #0x200

call queue_fg_vector_fn
1d de, #0x200
0A37

0A37

0A37

11 04 03

0A3A CD 9F 30

0A3D 11 02 02

0A40 CD 9F 30

0A43 11 00 02

0A46 CD 9F 30

0A49 11 00 06
                                                                                                                                                                              ; DATA XREF: 0000:070C<sup>†</sup>o
; display_message_04 "HIGH SCORE"
                                                                                                                                                                              ; display_score_or_high_score (high)
                                                                                                                                                                              ; display_score_or_high_score (P1)
                                                                     call
ld
                                                                                       queue_fg_vector_fn de, #0x600
                                                                                                                                                                              ; display lives and level
0A49 11 00 06

0A4C CD 9F 30

0A4F 21 0A 60

0A52 34

0A53

0A53

0A53
                                                                                       queue_fg_vector_fn
hl, #main_sequencer
(hl)
                                                                     call
ld
inc
                                                    SUBROUTINE
; CODE XREF: 0000:01F1\p; 0000:0798\p; '1'
                                   display_1UP:
                                                                      ld
                                                                                       a, #1
(VRAM_start+0x340), a
                                                                      ld
                                                                      ld
ld
ld
                                                                                       a, #0x25; '%'
(VRAM_start+0x320), a
a, #0x20; '(VRAM_start+0x300), a
                                                                                                                                                                              ; 'U'
                                                                                                                                                                              ; 'P'
0A5F 32 00 77
                                                                      ld
0A62 C9
0A63
0A63
0A63
                                   wait_cls_and_check_seen_intro:
    rst     0x18
    call     clear_visible_area_and_sprites
    ld     h1, #eight_bit_countdown
    ld     (h1), #1
    inc     1
    inc     (h1)
    ld     de, #seen_intro
    ld     a, (de)
    and     a
                                                                                                                                                                              ; DATA XREF: 0000:070E1o
0A63 DF 0A64 CD 74 08 0A67 21 09 60 0A6A 36 01 0A6C 2C 0A6D 34 0A6E 11 2C 62 0A71 1A 0A72 A7 0A73 CO 0A74 34
                                                                                                                                                                              ; wait for 8-bit countdown
                                                                                                                                                                              ; game_sequencer
; inc
                                                                                                                                                                              ; already seen intro?
; no, return
                                                                      and
                                                                      ret
0A74 34
                                                                                                                                                                              ; skip intro sequence
                                                                      inc
                                                                                       (hl)
0A75 C9
0A76
0A76
                                                                                      a, (intro_sequencer)
0x28
                                                                                                                                                                              ; DATA XREF: 0000:0710 o
0A76
                                   vector_on_intro_sequence:
0A76 3A 85 63
0A79 EF
0A79
0A7A 8A 0A
                                                                                                                                                                              ; Jump table
                                                                      .dw draw climb screen
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
0A7C BF 0A
0A8C 69 30
0A82 69 30
0A82 69 30
0A86 68 0B
0A88 B3 0B
0A8A AF
0A8A AF
0A8B 32 86 7D
0A8E 3C
0A8F 32 87 7D
0A99 32 A3 76
0A90 32 63 76
0A90 32 A7 60
0A90 32 A7 60
0A90 32 A7 60
                                                                     .dw draw_climbing_kong
                                                                     .uw uraw_cimping_Kong
.dw animate_kong_climbing_ladder
.dw wait_and_inc_sequence
.dw draw_lst_girder_deformation
.dw wait_and_inc_sequence
.dw draw_rest_of_deformations
.dw growl
                                  draw climb screen:
                                                                                                                                                                          ; DATA XREF: display_1UP+27 o
                                                                    xor
ld
                                                                                     (palette_bank), a
                                                                    inc
                                                                                     a (palette_bank+1), a de, #draw_data_climb draw_level_background a, #0x10 (VRAM_start+0x2A3), a (VRAM_start+0x263), a a, #0xD4 ; 'È' (VRAM_start+0x1AA), a
                                                                    1d
                                                                                                                                                                          ; palette bank 2
                                                                    call
                                                                                                                                                                          ; draw intro background
                                                                     ld
                                                                                                                                                                          ; <space>
                                                                    ld
ld
ld
                                                                                                                                                                          ; wipe top of ladder
; half ladder, half girder
                                                                    ld
0AA5 AF
0AA6 32 AF 62
0AA9 21 B4 38
0AAC 22 C2 63
                                                                                     a (byte_0_62AF), a hl, #dk_intro_jump_up_data hl, #dk_intro_jump_up_data), hl hl, #dk_intro_jump_left_data (ptr_current_jump_left_data (ptr_current_jump_left_data), hl a, #0x40; '@' (eight_bit_countdown), a hl, #intro_sequencer (hl)
                                                                     ld
                                                                     ld
                                                                                                                                                                          ; store ptr current entry
OAAF 21 CB 38
OAB2 22 C4 63
OAB5 3E 40
OAB7 32 09 60
                                                                    ld
ld
                                                                                                                                                                          ; store ptr current entry
                                                                     ld
                                                                     14
OABA 21 85 63
OABD 34
OABE C9
                                                                     ld
                                                                    ret
OABF
OABF
OABF
OABF DF
                                                                                                                                                                          ; DATA XREF: display_1UP+29\daggero ; wait for 8-bit countdown
                                  draw_climbing_kong:
                                                                                     0x18
hl, #dk_climbing_spr
copy_sprites_2_ll_data
hl, #soft_sprite_ram+8
c, #48
0x38
hl, #soft_sprite_ram+0xB
c, #153
OACO 21 8C 38
OAC3 CD 4E 00
OAC6 21 08 69
                                                                    1d
                                                                    call
ld
                                                                                                                                                                          ; sprite #2, y coord
OAC9 OE 30
                                                                    ld
OACB FF
OACC 21 OB 69
OACF OE 99
OAD1 FF
                                                                                                                                                                          ; add 48 to y coord for 10 sprites ; sprite #2, x coord
                                                                     ld
                                                                                     0x38
                                                                     rst
                                                                                                                                                                          ; add 153 to x coord for 10 sprites
                                                                    ld
ld
                                                                                     a, #0x1F
(byte_0_638E), a
0AD7 AF
0AD8 32 0C 69
0ADB 21 8A 60
0ADE 36 01
0AE0 23
                                                                    xor
ld
                                                                                     (soft_sprite_ram+0xC), a hl, #unk_0_608A (hl), #1
                                                                                                                                                                         ; sprite #3, y coord
                                                                    ld
ld
                                                                     inc
                                                                                     hl
OAE1 36 03
OAE3 21 85 63
OAE6 34
                                                                                     (hl), #3
hl, #intro_sequencer
(hl)
                                                                    ld
ld
                                                                     inc
0AE7 C9
OAE8
OAE8
OAE8
                                                                                                                                                                          ; DATA XREF: display_1UP+2B1o
                                   animate_kong_climbing_ladder:
0AE8 CD 6F 30
0AEB 3A AF 62
0AEE E6 0F
0AF0 CC 4A 30
0AF3 3A 0B 69
                                                                    call
ld
and
                                                                                     animate_kong_climbing
a, (byte_0_62AF)
#0xF
                                                                                                                                                                          ; time to wipe ladder?
; yes, do so
; sprite #2, x coord
; done climbing?
; on, return
                                                                                     #0xF
Z, wipe_ladder_as_kong_climbs
a, (soft_sprite_ram+0xB)
#0x5D; ']'
NC
a, #0x20; ''
(eight_bit_countdown), a
hl, #intro_sequencer
(h1)
(ptr_current_sequence), h1
                                                                    call
ld
OAF6 FE 5D
OAF8 DO
                                                                    cp
ret
OAF8 DO
OAF9 3E 20
OAFB 32 09 60
OAFE 21 85 63
OBO1 34
                                                                    1d
                                                                     14
                                                                                                                                                                         ; next sequence (3)
                                                                     inc
0B02 22 C0 63
                                                                    1d
                                                                                     (ptr_current_sequence), hl
0B05 C9
0B06
0B06
0B06
                                   draw_1st_girder_deformation:
                                                                                                                                                                          ; DATA XREF: display_1UP+2F1o
0B06 3A 1A 60
0B09 0F
                                                                     ld
                                                                                     a, (gen_purpose_timer)
                                                                    rrca
                                                                                                                                                                          ; time to animate?
; no, return
0B0A D8
                                                                     ret
0B0B 2A C2 63
0B0E 7E
0B0F FE 7F
0B11 CA 1E 0B
                                                                                     hl, (ptr_current_jump_up_data)
a, (hl)
#0x7F; ''
                                                                    ld
ld
                                                                                                                                                                          ; done jumping up?
; yes, skip
                                                                     ср
                                                                     jp
inc
                                                                                     Z, draw_pauline_and_kong
hl
0B14 23
0B15 22 C2 63
0B18 4F
                                                                                     c, a
hl, #soft_sprite_ram+0xB
0x38
                                                                                      (ptr_current_jump_up_data), hl
                                                                     ld
OB19 21 OB 69
                                                                    ld
                                                                                                                                                                          ; sprite #2,X coord
0B19 21
0B1C FF
0B1D C9
0B1E
0B1E
0B1E
0B1E 21 5C 38
0B1E
                                  ; CODE XREF: display_1UP+BE^j
                                  ld hl, #dk_normal_spr; End of function display_1UP
0B1E
0B21 CD 4E 00
0B24 11 00 69
0B27 01 08 00
                                                                                     copy_sprites_2_11_data
de, #soft_sprite_ram
bc, #8
                                                                    call
                                                                    ld
ld
0B2A ED B0
0B2C 21 08 69
0B2F 0E 50
                                                                                                                                                                          ; place pauline on girder
; sprite #2, y coord
                                                                    ldir
                                                                    ld
ld
                                                                                     h1, #soft_sprite_ram+8
c, #0x50 ; 'P'
0x38
0B31 FF
0B31 FF

0B32 21 0B 69

0B35 0E FC

0B37 FF

0B38 B38

0B38 CD 4A 30

0B3B 3A 8E 63

0B3E FE 0A
                                                                    rst
                                                                                     hl, #soft_sprite_ram+0xB
c, #0xFC; '3'
0x38
                                                                    1d
                                                                                                                                                                          ; sprite #2, x coord
                                                                    rst
                                   loc_0_B38:
                                                                                                                                                                          ; CODE XREF: 0000:0B40|j
                                                                                     wipe_ladder_as_kong_climbs
a, (byte_0_638E)
                                                                    ld
                                                                                     a, ()
#0xA
                                                                    cp
jp
ld
                                                                                                                                                                          ; done wiping ladders?
; no, loop
; tmr=3
0B3E FE 0A
0B40 C2 38 0B
0B43 3E 03
0B45 32 82 60
0B48 11 2C 39
0B4B CD A7 0D
0B4E 3E 10
0B50 32 AA 74
0B56 3E 05
0B58 3E 05
0B58 3E 00
                                                                                     #0xA
NZ, loc_0_B38
a, #3
(digital_snd_tmr_thump), a
de, #draw_data_bend_girders_1
draw_level_background
a, #0x10
(VRAM_start+0xAA), a
(VRAM_start+0xAA), a
a, #5
                                                                    ld
                                                                     ld
                                                                    call
ld
                                                                     1d
                                                                    ld
ld
ld
                                                                                     (VRAM_start+Ux8A), a
a, #5
(next_girder_to_deform), a
a, #0x20; '
(eight_bit_countdown), a
h1, #intro_sequencer
(h1)
0B5B 3E 20
                                                                     ld
0B5D 32 09 60
0B60 21 85 63
0B63 34
                                                                    ld
ld
0B64 22 C0 63
                                                                                     (ptr_current_sequence), hl
                                                                    ld
0B67 C9
0B68
0B68
0B68
                                  draw rest of deformations:
                                                                                                                                                                          ; DATA XREF: display_1UP+331o
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
0868 3A 1A 60

086B 0F

086C D8

086D 2A C4 63

0870 7E

0871 FE 7F

0873 CA 86 0B

0876 23

0877 22 C4 63

0877 21 0B 69

087D 4F
                                                                                     a, (gen_purpose_timer)
                                                                    rrca
                                                                    ret
ld
ld
                                                                                     hl, (ptr_current_jump_left_data)
a, (hl)
#0x7F; '-'
                                                                    cp
jp
inc
                                                                                     Z, loc_0_B86
hl
                                                                                     (ptr_current_jump_left_data), hl
hl, #soft_sprite_ram+0xB
c, a
                                                                     ld
                                                                                                                                                                          ; sprite #2, x coord
                                                                     1d
0B7D 4F
0B7E FF
0B7F 21 08 69
                                                                    ld
rst
ld
                                                                                     hl, #soft_sprite_ram+8
c, #0xFF
                                                                                                                                                                          ; sprite #2, y coord
0B82 0E FF
0B84 FF
0B85 C9
0B86
                                                                    1d
                                                                                     0x38
                                                                                                                                                                          ; subtract 1 from y coord for 10 sprites
0B86

0B86

0B86

0B86

21 CB 38

0B80 32 Q 4 63

0B8C 3E 03

0B8C 32 82 60

0B91 21 DC 38

0B94 3A 8D 63

0B97 3D

0B98 07

0B99 07

0B99 07
                                   loc_0_B86:
                                                                                                                                                                          ; CODE XREF: 0000:0B73↑j
                                                                                     hl, #dk_intro_jump_left_data
(ptr_current_jump_left_data), hl
a, #3
                                                                    ld
                                                                     ld
                                                                    ld
ld
ld
ld
                                                                                                                                                                          ; tmr=3
                                                                                     a, #3
(digital_snd_tmr_thump), a
hl, #draw_data_bend_girders_2
a, (next_girder_to_deform)
                                                                    dec
rlca
                                                                    rlca
rlca
0B9A 07
0B9B 07
0B9C 5F
0B9D 16 00
                                                                    rlca
ld
ld
                                                                                    e, a
d, #0
h1, de
de, h1
draw_level_background
h1, #next_girder_to_deform
(h1)
NZ
a, #0xB0; '\vec{\vec{\vec{w}}}'
(eight_bit_countdown), a
h1, #intro_sequencer
(h1)
0B9F 19
0BA0 EB
0BA1 CD A7 0D
0BA4 21 8D 63
                                                                    add
ex
call
0BA4 21 8D 63

0BA7 35

0BA8 C0

0BA9 3E B0

0BAB 32 09 60

0BAE 21 85 63

0BB1 34

0BB2 C9

0BB3
                                                                    dec
ret
ld
                                                                     1d
                                                                    ld
inc
                                                                     ret
                                  growl:
                                                                                                                                                                          ; DATA XREF: display_1UP+35\u00f10
0BB3 0BB3 21 8A 60 0BB6 3A 09 60 0BB9 FE 90 0BBB 20 0B 0BBD 36 0F 0BBF 23 0BC0 36 03 0BC2 21 19 69 0BC5 34
                                                                                     h1, #unk_0_608A
a, (eight_bit_countdown)
#0x90; 'É'
NZ, loc_0_BC8
(h1), #0xF
                                                                     ld
ld
                                                                     ср
                                                                     jr
ld
                                                                    inc
ld
ld
                                                                                     h1 (h1), #3
h1, #soft_sprite_ram+0x19 (h1)
                                                                                                                                                                          ; sprite #6, flipy & code
                                                                    inc
jr
0BC5 34
0BC5 34
0BC6 18 09
0BC8
0BC8
                                                                                     loc_0_BD1
0BC8
0BC8 FE 18
0BCA 20 05
0BCC 21 19 69
0BCF 35
                                  loc_0_BC8:
                                                                                                                                                                          ; CODE XREF: 0000:0BBB<sup>†</sup> †
                                                                                     #0x18
NZ, loc_0_BD1
hl, #soft_sprite_ram+0x19
(hl)
                                                                    cp
jr
ld
                                                                                                                                                                          ; sprite #6, flipy & code
                                                                    dec
0BD0 00
0BD1
                                                                    nop
                                                                                                                                                                          ; CODE XREF: 0000:0BC6†j; 0000:0BCA†j; wait for 8-bit countdown
0BD1
                                  loc_0_BD1:
ORD1 DE
OBD1 DF
OBD1
OBD2 AF
                                                                     rst
                                                                                     0x18
                                                                     xor
OBD3 32 85 63
                                                                     1d
                                                                                      (intro_sequencer), a
0BD6 34
0BD7 23
0BD8 34
                                                                                     (hl)
hl
(hl)
                                                                    inc
                                                                    inc
OBDO 51
OBDO C9
OBDA
OBDA
                                                                    ret
                                  draw_how_high_can_you_get:
                                                                                                                                                                          ; DATA XREF: 0000:0712 o
0BDA CD 1C 01
0BDD DF
0BDE CD 74 08
0BE1 16 06
                                                                    call
rst
call
                                                                                     stop_sound
0x18
                                                                                                                                                                          ; wait for 8-bit countdown
                                                                                     clear_visible_area_and_sprites
                                                                                     d, #6
a, (mario_alive_flag)
e, a
queue_fg_vector_fn
0BE1 16 06
0BE3 3A 00 62
0BE6 5F
0BE7 CD 9F 30
0BEA 21 86 7D
0BED 36 01
0BEF 23
0BF0 36 00
0BF2 21 8A 60
                                                                    ld
                                                                                                                                                                          ; display_lives_and_level
                                                                    ld
ld
                                                                    call
ld
                                                                                    queue_fg_vector_fr
hl, #palette_bank
(hl), #1
hl
(hl), #0
hl, #unk_0_608A
(hl), #2
hl
(hl), #3
                                                                    ld
inc
                                                                     ld
ld
                                                                                                                                                                          ; set palette #1
0BF2 21 8A 60

0BF5 36 02

0BF7 23

0BF8 36 03

0BFA 21 A7 63

0BFD 36 00

0BFF 21 DC 76

0C02 22 A8 63
                                                                    ld
inc
                                                                     ld
                                                                                     (h1), #3
hl, #height_counter
(h1), #0
hl, #VRAM_start+0x2DC
(disp_loc_for_height_string), hl
                                                                    ld
ld
ld
ld
                                                                                                                                                                          ; display location for height strings
0C02 22 A8 63
0C05 3A 2E 62
0C08 FE 06
0C0A 38 05
0C0C 3E 05
0C0E 32 2E 62
0C11
0C11 3A 2F 62
0C14 47
0C15 3A 2A 62
0C18 28 06
                                                                    ld
cp
jr
ld
                                                                                     a, (height)
#6
C, loc_0_C11
a, #5
                                                                                                                                                                          ; higher than max?
; no, skip
; set max height
; update
                                                                                     (height), a
                                                                     ld
                                                                                                                                                                          ; CODE XREF: 0000:0C0A1j
                                  loc 0 C11:
                                                                     ld
                                                                                     a, (last_seq_lsb)
                                                                     ld
ld
                                                                                     b, a
a, (seq_data)
                                                                                                                                                                          ; lsb of current level sequence ptr
                                                                                                                                                                          ; same as last time?
; yes, skip
                                                                    cp
jr
ld
                                                                                     b
                                                                                     Z, loc_0_C1F
hl, #height
(hl)
OC19 28 04
OC1B 21 2E 62
OC1E 34
OC1F
OC1F 32 2F 62
OC25 47
OC25 47
OC26 21 BC 75
OC29
OC29 OC 50
OC28
OC2B
OC2B
OC2B
OC2B
OCCB
OCCC OC
                                                                                                                                                                          ; inc height
                                                                     inc
                                                                                                                                                                          ; CODE XREF: 0000:0C19<sup>†</sup>j; update
                                   loc_0_C1F:
                                                                                     (last_seq_lsb), a
a, (height)
b, a
                                                                     ld
                                                                     1d
                                                                                     hl, #VRAM_start+0x1BC
                                                                     ld
                                                                                                                                                                          ; display location for kong
                                                                                                                                                                          ; CODE XREF: 0000:0C7F|j
                                  loc_0_C29:
                                                                                     c. #0x50 ; 'P'
                                                                    ld
                                                                                                                                                                          ; 1st tile for kong
                                   loc_0_C2B:
                                                                                                                                                                           ; CODE XREF: 0000:0C40|j
                                                                                                                                                                          ; display; next tile; next location; display; next tile; next tile; next tocation
                                                                                     (hl), c
                                                                     1d
0C2C 0C
                                                                     inc
0C2D 2B
0C2E 71
                                                                                     hl
(hl), c
                                                                    dec
ld
0C2F 0C
0C30 2B
                                                                     inc
                                                                                     c
hl
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
0C31 71
0C32 0C
0C33 2B
0C34 71
0C35 79
0C36 FE 67
0C38 0C
0C36 11 23 00
0C37 19
0C40 23 2B 0C
0C40 23 2B 0C
0C40 23 2B 0C
0C43 3C
0C43 3C
0C43 3C
0C43 3D
0C43 3D
0C43 3D
0C44 B CB 27
0C4D CB 27
0C5D DD 77 60
0C5D DD 77 60
0C60 23
0C61 7E
0C61 7E
                                                                                                               (hl), c
                                                                                                                                                                                                                             ; display
; next tile
; next location
; display
                                                                                         inc
                                                                                         dec
ld
ld
                                                                                                                (hl), c
                                                                                                               a, c
#0x67; 'g'
Z, loc_0_C43
c
                                                                                                                                                                                                                             ; last tile?
; yes, skip (exit)
; next tile
; column offset
; next column
; loop another column
                                                                                         cp
jp
inc
                                                                                                               de, #0x23; '#'
hl, de
loc_0_C2B
                                                                                         ld
                                                                                         add
                                                                                         jp
                                            loc_0_C43:
                                                                                                                                                                                                                             ; CODE XREF: 0000:0C3811
                                                                                         ld
                                                                                                               a, (height_counter)
                                                                                         inc
ld
                                                                                                               (height counter), a
                                                                                         dec
sla
sla
                                                                                                                                                                                                                             ; 0-based
                                                                                                                                                                                                                             ; x4 for table entry
                                                                                         push
ld
push
ld
                                                                                                               hl, #how_high_strings
                                                                                                                                                                                                                             ; display location for height strings
; table entry offset
                                                                                                               ix, (disp loc for height string)
                                                                                                              c, a
b, #0
hl, bc
a, (hl)
0x60(ix), a
                                                                                         ld
                                                                                         ld
add
ld
ld
                                                                                                                                                                                                                             ; get ptr how high string
; get 1st byte
; display
                                                                                                               hl
a, (hl)
0x40(ix), a
                                                                                                                                                                                                                             ; get 2nd byte
; display
                                                                                         ld
ld
0065 23 7 10 0065 23 7 10 00665 23 7 0066 7E D 77 20 0066 DD 77 20 0066 DD 77 20 0066 DD 75 0066 DD 75 0066 DD 75 006 DD 75 00
                                                                                         inc
ld
ld
ld
                                                                                                               hl
                                                                                                               hl
a, (hl)
0x20(ix), a
0xE0(ix), #0x8B; 'ï'
                                                                                                                                                                                                                             ; get 3rd byte
; display
; "m"
                                                                                         pop
push
                                                                                         pop
ld
                                                                                                               de, #0xFFFC
                                                                                                                                                                                                                             ; offset for next string
; display location for next string
                                                                                         add
ld
                                                                                                              hl, de (disp_loc_for_height_string), hl
                                                                                         pop
ld
                                                                                                               hl
de, #0xFF5F
                                                                                         add
dec
                                                                                                             ni, dc
b
NZ, loc_0_C29
de, #0x307
queue_fg_vector_fn
hl, #eight_bit_countdown
(hl), #0xA0; 'á'
                                                                                         jp
ld
                                                                                                                                                                                                                             ; display_message_07 "HOW HIGH CAN YOU GET"
                                                                                         call
ld
                                                                                         1d
                                                                                                               hl
(hl)
(hl)
                                                                                         inc
                                                                                         inc
                                                                                         ret
                                                                                                                                                                                                                             ; DATA XREF: 0000:0716 o
                                             wait_init_and_draw_level:
                                                                                        rst
                                                                                                               0x18
                                                                                                                                                                                                                             ; wait for 8-bit countdown
                                                                                                                                                                                                                             ; CODE XREF: 0000:0776†j
                                             init_and_draw_level:
                                                                                                               clear visible area and sprites
                                                                                        call
                                                                                         xor
                                                                                                              a
(bonus_timer), a
de, #0x501
queue_fg_vector_fn
h1, #palette_bank
(h1), #0
                                                                                         ld
ld
                                                                                                                                                                                                                             ; init bonus timer
; update_bonus_timer (tick)
                                                                                         call
ld
                                                                                         inc
                                                                                                               hl
(hl), #1
                                                                                         ld
ld
dec
                                                                                                                                                                                                                             ; select palette bank 2
                                                                                                               a, (level_type)
; barrel level?
; yes, skip
; cement pie level?
; yes, skip
; elevator level?
; yes, skip
                                                                                                               a Z, draw_barrel_level
                                                                                         jp
dec
                                                                                                               a
Z, draw_cement_pie_level
                                                                                         jp
dec
                                                                                                               a Z, draw_elevator_level
                                                                                         jp
call
ld
ld
                                                                                                               draw_rivet_level_top_support
hl, #palette_bank
(hl), #1
a, #0xB
                                                                                                                                                                                                                             ; select palette bank 3
                                                                                         ld
                                                                                                               (bg_music), a
de, #rivet_level_tilemap_data
                                                                                         1d
                                                                                                                                                                                                                             ; CODE XREF: 0000:0CDC|;
; 0000:0CEF|; ...
; draw screen
                                             draw_level_tilemap:
                                                                                                               draw_level_background
                                                                                                               a, (level_type)
                                                                                         ld
                                                                                         cp
call
                                                                                                                                                                                                                             ; rivets?
                                                                                                               Z, draw_8_rivets
init_level_data_tmrs_spr
                                                                                                                                                                                                                             ; yes, call
                                                                                          jp
                                             draw_barrel_level:
                                                                                                                                                                                                                             ; CODE XREF: 0000:0CABfj
                                                                                                               de, #barrel_level_tilemap_data
a, #8
                                                                                         ld
ld
                                                                                                               (bg_music), a
draw_level_tilemap
                                                                                         1d
                                                                                          jp
                                             draw_cement_pie_level:
                                                                                                                                                                                                                             ; CODE XREF: 0000:0CAF1j
                                                                                         ld
ld
                                                                                                               de, #cement_pie_level_tilemap_data
hl, #palette_bank
(hl), #1
                                                                                         ld
                                                                                                              (N1), #1
hl
(h1), #0
a, #9
(bg_music), a
draw_level_tilemap
                                                                                         inc
ld
                                                                                                                                                                                                                             ; select palette #1
                                                                                         ld
ld
                                                                                         jp
                                             draw_elevator_level:
                                                                                                                                                                                                                             ; CODE XREF: 0000:0CB31i
                                                                                                              draw_2_elevator_cables
a, #0xA
(bg_music), a
de, #elevator_level_tilemap_data
draw_level_tilemap
                                                                                         call
ld
                                                                                         1d
                                                                                         ld
                                                                                         jр
                                             ; SUBROUTINE
                                                                                                                                                                                                                              ; CODE XREF: 0000:0CCETp
                                            draw 8 rivets:
                                                                                                              b, #8
hl, #rivet_loc_tbl
                                                                                         ld
                                                                                                                                                                                                                              ; 8 rivets
                                                                                                                                                                                                                             ; CODE XREF: draw_8_rivets+14|j; top of rivet tile
                                             draw_rivet:
                                                                                         14
                                                                                                               a, #0xB8; '©'
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
0D07 0E 02
                                                                                                                                   ; 2 tiles/rivet (vertical)
0D07 0E

0D09 5E

0D0A 23

0D0B 56

0D0C 23

0D0D

0D0D

0D0D 12

0D0E 3D

0D0E 13
                                                                 e, (hl)
hl
d, (hl)
hl
                                                     1d
                                                                                                                                   ; get VRAM location
                                                                                                                                   ; CODE XREF: draw_8_rivets+11|j
; draw rivet tile
; next rivet tile
; next VRAM location
; done a rivet?
; no, loop
; loop through 8 rivets
                          loc_0_D0D:
                                                    ld
                                                                  (de), a
                                                    dec
                                                                  a
de
ODDF 13
OD10 OD
OD11 C2 OD OD
OD14 10 EF
OD16 C9
OD16
OD16
OD17 CA 76
OD17 CA 76
OD19 CF 76
OD1B D4 76
OD1B D4 76
OD1F 2A 75
OD21 2F 75
OD21 37 75
OD23 34 75
OD25 39 75
                                                    inc
dec
0D0F 13
                                                    jp
djnz
                                                                  draw_rivet
                           ret; End of function draw_8_rivets
                                                                                                                                   ; DATA XREF: draw_8_rivets+2↑o
; Rivets level, location of rivets
                           rivet_loc_tbl: .dw VRAM_start+0x2CA
                                                     .dw VRAM_start+0x2CF
                                                     .dw VRAM start+0x2D4
                                                     .dw VRAM_start+0x2D9
.dw VRAM_start+0x12A
.dw VRAM_start+0x12F
                                                     .dw VRAM start+0x134
0D23 34 75

0D25 39 75

0D27

0D27

0D27

0D27

0D27

0D27 21 0D 77
                                                     .dw VRAM_start+0x139
                                       SUBROUTINE
                          ; CODE XREF: 0000:0CF2<sup>p</sup>
SUBROUTINE
                                                                                                                                   ; CODE XREF: draw_2_elevator_cables+3^{\uparrow}p ; cable height 17 tiles
                          draw_elevator_cable:
                           loc_0_D32:
                                                                                                                                   ; CODE XREF: draw_elevator_cable+5 | j
                                                                                                                                      vertical bar tile left edge next row
                                                                  (hl), #0xFD; '2'
                                                                 hl loc_0_D32 de, #0xF hl, de b, #17
                                                    djnz
                                                                                                                                   ; loop cable height
                                                    14
                                                                                                                                   ; next column
; cable height 17 tiles
                                                                                                                                   ; CODE XREF: draw_elevator_cable+10|j
; vertical bar tile right edge
; next row
; loop cable height
                           loc_0_D3D:
                                                     ld
                                                                  (hl), #0xFC; '3'
                                                     inc
0D47 23
0D40 10 FB
0D42 C9
0D42
0D42
                           djnz loc_0_D3D
ret
; End of function draw_elevator_cable
                                                                 loc_0_D3D
0D42

0D43

0D43

0D43

0D43

0D43

0D43

0D43

21 87 76

0D46 CD 4C 0D

0D49

0D49

0D49

0D40

0D40
                                 SUBROUTINE
                          draw_rivet_level_top_support:
                                                                                                                                   ; CODE XREF: 0000:0CB61p
                           0D4C

0D4C

0D4C

0D4C

0D4C

0D4C

0D4E

0D4E

0D4E

0D4E

0D4E

0DEC

36 FD
                           ; SUBROUTINE
                                                                                                                                   ; CODE XREF: draw_rivet_level_top_support+3^p
                          draw_support_bars
                                                    1d
                                                                 b, #4
                                                                                                                                   ; 4 rows to draw
                                                                                                                                   ; CODE XREF: draw_support_bars+5|;
; vertical bar tile left edge
                          loc_0_D4E:
                                                                  (hl), #0xFD; '2'
                                                    1d
0D4E 36 FD

0D50 23

0D51 10 FB

0D53 11 1C 00

0D56 19

0D57 06 04

0D59

0D59

0D59 36 FC
                                                                 hl
loc_0_D4E
de, #0x1C
hl, de
                                                     inc
                                                                                                                                   ; next row
                                                    djnz
ld
                                                     add
                                                                                                                                   ; next column
                                                     ld
                                                                  b, #4
                                                                                                                                   ; 4 rows to draw
                                                                                                                                   ; CODE XREF: draw_support_bars+10|;
; vertical bar tile right edge
                          loc 0 D59:
                                                    1d
                                                                  (hl), #0xFC; '3'
0D59 30 FC
0D5B 23
0D5C 10 FB
0D5E C9
0D5E
                                                    inc
djnz
                                                                 hl
loc_0_D59
                          ret; End of function draw_support_bars
0D5E
0D5F
0D5F
0D5F
0D5F CD 56 0F
0D62 CD 41 24
0D65 21 09 60
                           init_level_data_tmrs_spr
                                                                                                                                   ; CODE XREF: 0000:3FA3-1
                                                                 r_cont:
initialise_level_data_and_timers
sub_0_2441
hl, #eight_bit_countdown
(hl), #0x40; '@'
                                                    call
                                                    call
                                                    ld
0D65 21 09 60

0D68 36 40

0D6A 23

0D6B 34

0D6C 21 5C 38

0D6F CD 4E 00

0D72 11 00 69

0D75 01 08 00
                                                    ld
                                                                 hl
(hl)
                                                                                                                                   ; main_sequencer
; next sequence (2)
                                                     inc
                                                                 hl, #dk_normal_spr
copy_sprites_2_11_data
de, #soft_sprite_ram
bc, #8
                                                    ld
                                                    call
ld
ld
                                                                                                                                   ; sprites 0,1 ; 8 bytes to copy
0D78 ED B0
                                                    ldir
                                                                                                                                   ; copy pauline sprite
                                                                 a, (level_type)
#4
0D7A 3A 27 62
0D7D FE 04
                                                     ld
                                                                                                                                   ; rivets?
                                                     ср
                                                    jr
rrca
rrca
ret
                                                                  Z, adj_pauline_kong_for_rivets
                                                                                                                                   ; yes, skip
0D7F 28 0A
0D81 0F
0D82 0F
0D82 0F
0D83 D8
0D84 21 0B 69
                                                                                                                                   ; level 2/3?
; yes, return
                                                                 hl, #soft_sprite_ram+0xB
c, #0xFC; '3'
0x38
                                                    ld
                                                                                                                                      sprite #2 (kong), x coord
0D87 0E FC
0D89 FF
0D8A C9
                                                     ld
                                                                                                                                   ; subtract 4 from x coord for 10 sprites
                                                    ret
0D8B
0D8B
0D8B
0D8B 21 08 69
                          ; CODE XREF: 0000:0D7F<sup>†</sup>j; sprite #2 (Kong), xcoord
OD8B 21 08 69
OD8E 0E 44
OD90 FF
OD91 11 04 00
OD94 01 10 02
OD97 21 00 69
                                                                 c, #68
0x38
de, #4
bc, #0x210
hl, #soft_sprite_ram
add_c_sprite_register_xB
bc, #0x2F8
hl, #soft_sprite_ram+3
add_c_sprite_rame+3
                                                                                                                                   ; add 68 to {\tt x} coord for 10 sprites
                                                     ld
                                                    ld
                                                                                                                                   ; sprite #0 (Pauline), y coord
0D9A CD 3D 00
0D9D 01 F8 02
                                                    call
ld
ODAO 21 03 69
ODA3 CD 3D 00
                                                    1d
                                                                                                                                   ; sprite #0 (Pauline), x coord
                                                                  add_c_sprite_register_xB
```

```
0DA6 C9
                                                                                ret
0DA7
0DA7
0DA7
0DA7
                                         ; SUBROUTINE SUBROUTINE
                                                                                                                                                                                                        ; CODE XREF: display_1UP+42 p
0DA7
0DA7 1A
                                        draw_level_background:
                                                                                                                                                                                                            0000:0B4B1p ...
get flag
store for later
done?
ODA7
ODA7
ODA8 32 B3 63
                                                                                                    a, (de)
(segment_type), a
#0xAA; '¬'
                                                                                 ld
                                                                                cp
ret
inc
ld
ODAB FE AA
ODAD C8
ODAE 13
ODAF 1A
                                                                                                                                                                                                            yes, return
next table address
get byte
                                                                                                    a, (de)
0DB0 67
0DB1 44
0DB2 13
                                                                                                   h, a
b, h
de
                                                                                ld
ld
                                                                                                                                                                                                            H=Y1
                                                                                                                                                                                                           B=Y1
next table address
                                                                                 inc
                                                                                                   a, (de)
l, a
c, l
de
                                                                                                                                                                                                            get byte
0DB3 1A
                                                                                 1d
                                                                                ld
ld
0DB4 6F
                                                                                                                                                                                                            T<sub>1</sub>=X1
0DB4 0F
0DB5 4D
0DB6 D5
0DB7 CD F0 2F
                                                                                push
call
                                                                                                    get_tilemap_addr_from_coords
ODBA D1
ODBB 22 AB 63
ODBE 78
ODBF E6 07
                                                                                                    de (segment_addr_1), hl
                                                                                                                                                                                                       ; store vram address #1
                                                                                 ld
                                                                                 and
0DC1 32 B4 63
0DC4 79
                                                                                ld
ld
                                                                                                    (tile_byte_1), a
                                                                                                    a, c
#7
0DC5 E6 07
0DC7 32 AF 63
                                                                                and
ld
                                                                                                     (start_tile_index), a
0DCA 13
0DCB 1A
0DCC 67
                                                                                                    de
a, (de)
h, a
                                                                                                                                                                                                        ; next table entry
                                                                                                                                                                                                        ; Y2
; H=Y2
                                                                                 ld
ld
                                                                                                                                                                                                        ; calc delta Y
; no, skip
; delta Y
ODCD 90
ODCE D2 D3 OD
ODD1 ED 44
ODD3
                                                                                sub
jp
                                                                                                    NC, loc_0_DD3
                                                                                neg
ODD3
ODD3 32 B1 63
ODD6 13
                                        loc_0_DD3:
                                                                                                                                                                                                        ; CODE XREF: draw_level_background+27\uparrow j
                                                                                                     (dY), a
                                                                                                   de
a, (de)
l, a
                                                                                                                                                                                                        ; next entry
                                                                                 inc
0DD7 1A
                                                                                 1d
                                                                                                                                                                                                        ; X2
ODD 1A
ODD8 6F
ODD9 91
ODDA 32 B2 63
ODDD 1A
                                                                                ld
sub
                                                                                                                                                                                                        ; T=X2
                                                                                                                                                                                                        ; calc delta X
                                                                                                    c
(dX),
                                                                                ld
ld
                                                                                                    a, (de)
#7
                                                                                                                                                                                                        ; X2 (again)
ODDE E6 07
ODE0 32 B0 63
ODE3 D5
ODE4 CD F0 2F
                                                                                and
ld
                                                                                                                                                                                                        ; TILE bits only
                                                                                                     (end_tile_index), a
                                                                               push
call
pop
ld
                                                                                                    de
                                                                                                    get_tilemap_addr_from_coords
de
  (segment_addr_2), h1
ODE4 CD F0 2F
ODE7 D1
ODE8 22 AD 63
ODE8 3A B3 63
ODEE FE 02
ODF0 F2 4F 0E
ODF3
                                                                                                                                                                                                        ; store vram address #2
; flag
; >=2?
                                                                                                    a, (segment_type)
#2
                                                                                1d
                                                                                cp
jp
                                                                                                    P, draw_girder_segment
                                                                                                                                                                                                        ; yes, skip
ODF3
                                         draw_ladder_segment:
ODF3 3A B2 63
ODF6 D6 10
ODF8 47
                                                                                ld
                                                                                                    a, (dX)
#0x10
                                                                                sub
                                                                                                                                                                                                        ; calc starting tile index adjustment
                                                                                                   #UNTO
b, a
a, (start_tile_index)
a, b
(dX), a
a, (start_tile_index)
a, #0xF0; '-'
                                                                                 ld
ODF9 3A AF 63
ODFC 80
ODFD 32 B2 63
OEO0 3A AF 63
OEO3 C6 F0
                                                                                1d
                                                                                add
ld
                                                                                                                                                                                                        ; adjust
                                                                                 ld
                                                                                 add
                                                                                                                                                                                                        ; girder top, no ladder above
00005 2A AB 63
0008 77
00005 2A AB 63
0008 77
0000 3A B3 63
0010 FE 01
00112 C2 19
0015 AF
0016 32 B2 63
0019 9
0019 9
0019 9
0019 9
0019 9
0019 AB B2 63
0019 0
                                                                                ld
ld
                                                                                                    hl, (segment_addr_1)
(hl), a
                                                                                                                                                                                                        ; display tile
                                                                                                                                                                                                        ; next row
; matching ladder tile
; display it
                                                                                inc
                                                                                                    #0x30 ; '0'
                                                                                 sub
                                                                                ld
ld
                                                                                                    (hl), a
a, (segment_type)
#1
                                                                                                                                                                                                        ; broken ladder?
                                                                                cp
jp
                                                                                                    NZ, next_tile_in_ladder_segment
                                                                                                                                                                                                        ; no, skip
; flag end-of-ladder
                                                                                                    a
(dX), a
                                                                                ld
                                                                                                                                                                                                        ; CODE XREF: draw_level_background+6Bfj
; draw_level_background+80fj
                                         next_tile_in_ladder_segment:
                                                                                                    a, (dX)
                                                                                1d
                                                                                sub
ld
                                                                                                                                                                                                        ; finished ladder?
                                                                                                    (dX), a
C, loc_0_E2A
                                                                                                                                                                                                       ; yes, skip
; next row
; full ladder tile
; loop for ladder
                                                                                 jp
                                                                                 inc
                                                                                                    (hl), #0xC0 ; 'L'
next_tile_in_ladder_segment
                                                                                ld
                                                                                 jp
                                         loc_0_E2A:
                                                                                                   a, (end_tile_index)
a, #0xD0 ; 'ð'
h1, (segment_addr_2)
(h1), a
a, (segment_type)
#1
                                                                                                                                                                                                        ; CODE XREF: draw_level_background+7A<sup>†</sup> j
                                                                                                                                                                                                        ; girder top, bottom of ladder
; vram address
                                                                                 add
ld
                                                                                 ld
ld
                                                                                                                                                                                                        ; broken ladder?
                                                                                 ср
                                                                                jp
dec
ld
                                                                                                                                                                                                        ; no, skip
; row above
; display full ladder tile
; re-adjust row
                                                                                                    NZ, loc_0_E3F
                                                                                                    (hl), #0xC0; 'L'
                                                                                 inc
                                         loc_0_E3F:
                                                                                                    a, (end_tile_index)
#0
                                                                                                                                                                                                        ; CODE XREF: draw_level_background+91^j
                                                                                 ld
                                                                                cp
jp
add
                                                                                                                                                                                                        ; 2nd tile (below) reg'd?
                                                                                                    z, loc_0_E4B
a, #0xE0 ; 'Ó'
                                                                                                                                                                                                        ; no, skip
; bottom of girder, no ladder below
                                                                                                                                                                                                        ; next row
; display tile
                                                                                 inc
                                                                                                    (hl), a
                                                                                ld
                                                                                                                                                                                                        ; CODE XREF: draw_level_background+9D<sup>†</sup>j
                                         loc_0_E4B:
                                                                                 inc
                                                                                                                                                                                                        ; next entry
; loop through level data
                                                                                                    draw level background
                                                                                                                                                                                                        ; CODE XREF: draw_level_background+49<sup>†</sup>j
                                         draw_girder_segment:
                                                                                                    a, (segment_type)
#2
                                                                                 ld
                                                                                                                                                                                                       ; girder?
; no, skip
                                                                                 ср
                                                                                                   #2
NZ, draw_conveyor_segment
a, (start_tile_index)
a, #0xF0; '-'
(current_tile_in_segment), a
h1, (segment_addr_1)
                                                                                 jp
ld
                                                                                                                                                                                                        ; girder top (no ladder above)
; initialise girder segment tile
; 'from' address
                                                                                 add
0E62
0E62
0E62 3A B5 63
0E62
0E65 77
                                                                                                                                                                                                        ; CODE XREF: draw_level_background+E5|;
; draw_level_background+125|; ...
                                         next_tile_in_girder_segment:
                                                                                                            (current tile in segment)
                                                                                                     (hl), a
                                                                                                                                                                                                        ; display it
; next row
                                                                                ld
0E65 77
0E66 23
0E67 7D
0E68 E6 1F
0E6A CA 78 0E
                                                                                                   hl
a, l
                                                                                inc
ld
                                                                                and
                                                                                                    #0x1F
                                                                                                                                                                                                        ; bottom of screen?
; yes, skip
                                                                                                    Z, loc_0_E78
```

```
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0E6D 3A B5 63

0E70 FE F0

0E72 CA 78 0E

0E75 D6 10

0E77 77

0E78

0E78

0E78 01 1F 00

0E78

0E7B 09
                                                                                                                                   a, (current_tile_in_segment)
#0xF0 ; '-'
Z, loc_0_E78
#0x10
(h1), a
                                                                                                                                                                                                                                                                      ; full girder?
; yes, skip
; get matching bottom piece
; display it
                                                     loc_0_E78:
                                                                                                                                                                                                                                                                      ; CODE XREF: draw_level_background+C3^j;
  draw_level_background+CB^j;
                                                                                                                                    bc, #0x1F
0578

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                                                                                                         add
ld
sub
                                                                                                                                   hl, bc
a, (dY)
#8
                                                                                                                                                                                                                                                                      ; next column
                                                                                                                                                                                                                                                                      ; finished? (ignore [2:0])
; yes, skip
                                                                                                         jp
ld
ld
                                                                                                                                    C, next_segment
                                                                                                                                    (dY)
                                                                                                                                   a, (dX)
#0
                                                                                                                                                                                                                                                                        ; angled?
                                                                                                          ср
                                                                                                                                   z, next_tile_in_girder_segment
a, (current_tile_in_segment)
(hl), a
                                                                                                         jp
ld
ld
                                                                                                                                                                                                                                                                      ; no, loop
                                                                                                                                                                                                                                                                      ; display it
; next row
                                                                                                          inc
0E94 7D
                                                                                                          1d
0E94 7D
0E95 E6 1F
0E97 CA A0 0E
0E9A 3A B5 63
0E9D D6 10
0E9F 77
0EA0
                                                                                                                                   #Ux1F
Z, loc_0_EA0
a, (current_tile_in_segment)
                                                                                                                                                                                                                                                                      ; bottom of screen?
; yes, skip
                                                                                                           and
                                                                                                           jp
1d
                                                                                                          sub
                                                                                                                                     #0x10
                                                                                                                                                                                                                                                                      ; get matching bottom piece
                                                                                                         ld
                                                                                                                                    (hl), a
                                                                                                                                                                                                                                                                       ; display it
0EA0
0EA0
0EA0 01 1F 00
0EA3 09
0EA4 3A B1 63
0EA7 D6 08
                                                                                                                                                                                                                                                                      ; CODE XREF: draw_level_background+F0^j
                                                     loc 0 EA0:
                                                                                                                                   bc, #0x1F
hl, bc
a, (dY)
#8
                                                                                                         14
                                                                                                         add
ld
sub
                                                                                                                                                                                                                                                                      ; next column
                                                                                                                                                                                                                                                                       ; finished? (ignore [2:0])
0EA7 DO 00
0EA9 DA CF 0E
0EAC 32 B1 63
0EAF 3A B2 63
0EB2 CB 7F
                                                                                                         jp
ld
ld
                                                                                                                                            next_segment
                                                                                                                                                                                                                                                                       ; yes, skip
                                                                                                                                   (dY), a
a, (dX)
7, a
                                                                                                                                                                                                                                                                      ; sloping up? ; no, skip
                                                                                                         bit
0EB4 C2 D3 0E
0EB7 3A B5 63
0EBA 3C
0EBB 32 B5 63
                                                                                                                                   NZ, girder_sloping_down a, (current_tile_in_segment)
                                                                                                                                                                                                                                                                      ; next tile
                                                                                                                                     (current_tile_in_segment), a
                                                                                                          1d
0EBB 52 B5 05
0EBE FE F8
0EC0 C2 C9 0E
0EC3 23
                                                                                                          cp
jp
                                                                                                                                   #0xF8; '°'
NZ, loc_0_EC9
                                                                                                                                                                                                                                                                      ; time to wrap tile?
; no, skip
                                                                                                           inc
                                                                                                                                    hl
                                                                                                                                                                                                                                                                      ; next row
; init current tile
                                                                                                                                    a, #0xF0 ; '-'
0EC4 3E F0
                                                                                                          ld
                                                                                                                                    (current_tile_in_segment), a
0EC9
0EC9 7D
                                                     loc 0 EC9:
                                                                                                                                                                                                                                                                      ; CODE XREF: draw_level_background+119<sup>†</sup> j
                                                                                                         14
0EC9 7D
0ECA E6 1F
0ECC C2 62 0E
0ECF
0ECF 13
0ECF 0ECF C3 A7 0D
                                                                                                                                                                                                                                                                      ; bottom of screen?
; no, loop
                                                                                                          and
                                                                                                                                    NZ, next_tile_in_girder_segment
                                                                                                          qį
                                                                                                                                                                                                                                                                      ; CODE XREF: draw_level_background+DA<sup>†</sup>j
; draw_level_background+102<sup>†</sup>j ...
; next entry
; loop for all entries
                                                      next_segment:
                                                                                                          inc
0ECF
0ED0 C3 A7 0D
0ED3
0ED3
0ED3
                                                                                                                                    draw_level_background
                                                                                                                                                                                                                                                                      ; CODE XREF: draw_level_background+10Dfj
                                                      girder_sloping_down:
0ED3 3A B5 63
0ED6 3D
0ED7 32 B5 63
                                                                                                          1d
                                                                                                                                     a, (current_tile_in_segment)
                                                                                                          dec
1d
                                                                                                                                                                                                                                                                      ; next tile in sequence is -1
                                                                                                                                     a
(current_tile_in_segment), a
                                                                                                                                                                                                                                                                      ; time to wrap tile?
; no, skip
; next row
; init current tile
                                                                                                                                   #0xF0; '-'
P, loc_0_EE5
hl
a, #0xF7; ','
OEDA FE FO
OEDC F2 E5 OE
                                                                                                         cp
                                                                                                         jp
dec
ld
DEDED 2B.

DEED 3D.

DEED 3D.

DEED 3D.

DEED 3D.

DEED 3D.

DEED 3D.

DEED 5.

DEED 6.

DEED 6.

DEED 6.

DEED 6.

DEED 7.

DEED 7.

DEED 7.

DEED 7.

DEED 7.

DEED 0.

DEED 8.

DEED 8.

DEED 8.

DEED 8.

DEED 0.

DEED
                                                                                                                                    (current_tile_in_segment), a
                                                                                                         1d
                                                                                                                                                                                                                                                                      ; CODE XREF: draw_level_background+135↑j; loop
                                                      loc_0_EE5:
                                                                                                                                   next_tile_in_girder_segment
                                                                                                         qį
                                                                                                                                                                                                                                                                      ; CODE XREF: draw_level_background+AD^j
                                                                                                                                    a, (segment_type)
                                                                                                          ld
                                                                                                         cp
jp
ld
                                                                                                                                                                                                                                                                       ; conveyor?
                                                                                                                                   #3
NZ, draw_other_segments
h1, (segment_addr_1)
a, #0xB3; '|'
(h1), a
bc, #0x20; ''
h1, bc
a, (dY)
#0x10
                                                                                                                                                                                                                                                                      ; empty tile!?!
; display it
                                                                                                          ld
                                                                                                         ld
ld
                                                                                                                                                                                                                                                                      ; next column
                                                                                                         add
                                                                                                          1d
                                                                                                           sub
                                                                                                                                    #0x10
                                                                                                                                                                                                                                                                      ; 2nd last tile?
                                                                                                                                                                                                                                                                       ; CODE XREF: draw_level_background+16A|j
                                                     next tile on coneyor segment:
                                                                                                                                  gment:
C, end_of_conveyor_segment
(dY), a
a, #0xB1; '
(h1), a
bc, #0x20; ' '
h1, bc
a, (dY)
#8
                                                                                                         jp
ld
ld
                                                                                                                                                                                                                                                                      ; yes, skip
                                                                                                                                                                                                                                                                      ; conveyor tile
; display it
                                                                                                          ld
ld
                                                                                                           add
                                                                                                                                                                                                                                                                      ; next column
                                                                                                          sub
                                                                                                                                    next_tile_on_coneyor_segment
                                                                                                          jp
                                                                                                                                                                                                                                                                      ; loop through conveyor
                                                                                                                                                                                                                                                                      ; CODE XREF: draw level background+1581i
                                                      end of conveyor segment:
                                                                                                         ld
ld
                                                                                                                                   a, #0xB2; '#'
(h1), a
                                                                                                                                                                                                                                                                      ; end of conveyor
; display it
                                                                                                          inc
                                                                                                          jр
                                                                                                                                    draw level background
                                                                                                                                                                                                                                                                      ; return
                                                                                                                                                                                                                                                                      ; CODE XREF: draw level background+146 j
                                                      draw other segments:
                                                                                                                                    a, (segment_type)
#7
                                                                                                          ld
                                                                                                                                   P, next_segment
#4
                                                                                                           jp
                                                                                                         cp
jp
cp
                                                                                                                                                                                                                                                                       ; blank?
                                                                                                                                                                                                                                                                      ; blank;
; yes, skip
; rivet level girder?
; yes, skip
; oil barrel stand (conveyor level)
                                                                                                                                    #5
Z, draw_blank_segment
#5
Z, draw_rivet_level_girder
                                                                                                         jp
ld
                                                                                                                                    a, #0xFE; '■'
                                                                                                                                                                                                                                                                      ; CODE XREF: draw_level_background+1A7|;
; draw_level_background+1AC|;
                                                     loc_0_F2F:
                                                                                                                              __egment), & __addr_1)

a, (current_tile_in_segment) (h1), a bc, #0x20; ''h1, bc a, (dY) #8 (dw'
                                                                                                         ld
                                                                                                                                                                                                                                                                      ; CODE XREF: draw_level_background+19E|j
                                                     next_other_segment_tile:
                                                                                                         ld
                                                                                                         ld
ld
                                                                                                                                                                                                                                                                      ; display tile
                                                                                                         add
ld
                                                                                                                                                                                                                                                                      ; next column
0F3D 3A B1 63
0F40 D6 08
0F42 32 B1 63
0F45 D2 35 0F
0F48 13
                                                                                                         sub
ld
                                                                                                                                                                                                                                                                      ; no, loop
; next entry
                                                                                                         jp
inc
                                                                                                                                    NC, next_other_segment_tile
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
0F49 C3 A7 0D
                                                                                draw_level_background
0F49 C3 A7 0D
0F4C
0F4C
0F4C
0F4C 3E E0
0F51
0F51
0F51
3E B0
0F51 3E B0
0F53 C3 2F 0F
0F53
0F53
                                 draw_blank_segment:
                                                                                                                                                                 ; CODE XREF: draw_level_background+17E\uparrowj; blank tile
                                                                                a, #0xE0 ; 'Ó'
loc_0_F2F
                                                                 jр
                                                                                                                                                                 ; CODE XREF: draw_level_background+183\uparrow j ; rivet level girder
                                 draw_rivet_level_girder:
                                 ld a, #0xB0; '\boxed' |
jp loc_0_F2F
; End of function draw_level_background
\verb|initialise_level_data_and_timers|| \\
                                                                                                                                                                 ; CODE XREF: 0000:0D5F<sup>†</sup>p
                                                                             b, #39
hl, #mario_alive_flag
                                                                 ld
                                                                1d
                                 loc_0_F5C:
                                                                                                                                                                 ; CODE XREF: 0000:0F5E - i
                                                                ld
inc
                                                                                 (hl), a
                                                                                loc_0_F5C
c, #17
d, #128
hl, #unk_0_6280
                                                                                                                                                                 ; clear 39 bytes
                                                                 djnz
                                                                 1d
0F60 0E 11
0F62 16 80
0F64 21 80 62
0F67
0F67 42
0F68
0F68 0F68
0F68 77
0F69 23
0F6A 10 FC
0F6C 0D
                                                                                                                                                                 ; $6280-$6AFF cleared
                                                                                                                                                                  ; CODE XREF: 0000:0F6D|j
                                 loc_0_F67:
                                                                 ld
                                                                                                                                                                  ; 128 bytes to clear
                                                                                                                                                                 ; CODE XREF: 0000:0F6A|j
                                 loc_0_F68:
                                                                 1d
                                                                                 (hl), a
                                                                                                                                                                  ; clear byte
                                                                 inc
djnz
                                                                                 loc_0_F68
                                                                                                                                                                 ; clear 128 bytes
                                                                 dec
0F6C 0D 0F6F 21 9C 3D 0F72 11 80 62 0F75 01 40 00 0F78 ED B0 0F7A 3A 29 62 0F7D 47 0F7E A7
                                                                 jr
ld
ld
                                                                                NZ, loc_0_F67
hl, #level_init_data
de, #unk_0_6280
bc, #64
                                                                                                                                                                 ; clear 17*128=2176($880) bytes
                                                                 ld
                                                                 ldir
ld
ld
                                                                                                                                                                 ; init 64 bytes
                                                                                 b, a
0F7E A7
0F7F 17
0F80 A7
0F81 17
0F82 A7
0F83 17
0F84 80
0F85 80
0F86 C6 28
0F88 FE 51
0F8A 38 02
0F8C 3E 50
                                                                 and
                                                                 rla
and
                                                                                                                                                                  ; level * 2
                                                                 rla
and
rla
add
                                                                                                                                                                 ; level * 4
                                                                                 а
                                                                                                                                                                 ; level * 8
; level * 9
; level * 10
; level * 10 + 40
; max?
; no, skip
; max out at 80
                                                                                a, b
a, b
a, #40
#81
C, loc_0_F8E
a, #80
                                                                 add
                                                                  add
                                                                 ср
                                                                 jr
ld
0F8A 38 02

0F8C 3E 50

0F8E

0F8E

0F8E 21 B0 62

0F91 06 03

0F93

0F93 77

0F94 2C

0F95 10 FC
                                 loc_0_F8E:
                                                                                                                                                                 ; CODE XREF: 0000:0F8A<sup>†</sup>j
                                                                                 hl, #bonus_timer_init_value
                                                                                 b, #3
                                                                 ld
                                                                                                                                                                 ; 3 timers to initialise \,
                                                                                                                                                                  ; CODE XREF: 0000:0F95|j
                                 loc_0_F93:
                                                                                                                                                                 ; store timer value
; next timer
; loop for 3 timers
; level * 20 + 80
                                                                 1d
                                                                                 (hl), a
                                                                 inc
0F94 2C
0F95 10 FC
0F97 87
0F98 47
0F99 3E DC
0F9B 90
0F9C FE 28
                                                                 djnz
add
                                                                                 loc_0_F93
                                                                                 a, a
b, a
a, #220
b
                                                                 ld
ld
                                                                                                                                                                 ; 220-(level*20+80)=140-level*20; min?; no, skip; set min=40
                                                                 sub
                                                                                 #40
                                                                 cp
jr
ld
                                                                                 NC, loc_0_FA2
a, #40
0F9E 30 02
0F9E 30 02
0FA0 3E 28
0FA2
0FA2
                                                                                                                                                                 ; CODE XREF: 0000:0F9E↑j
                                 loc_0_FA2:
OFA2 77
OFA3 2C
OFA4 77
OFA5 21 09 62
                                                                                                                                                                 ; set timer
; next timer
; set timer
                                                                 1d
                                                                                 (hl), a
                                                                 inc
ld
ld
                                                                                (h1), a
h1, #unk_0_6209
(h1), #4
OFAS 21 09 02
OFAS 36 04
OFAA 2C
OFAB 36 08
OFAD 3A 27 62
                                                                 ld
inc
ld
                                                                                1
(h1), #8
a, (level_type)
c, a
2, a
NZ, loc_0_FCB
hl, #soft_sprite_ram+0x100
a, #0x4F; 'O'
b, #3
                                                                 1d
0FB0 4F
0FB1 CB 57
0FB3 20 16
                                                                 ld
                                                                                                                                                                 ; rivets level?
; yes, skip
; sprite #64, y coord
; sprite X position
; 3 sprites to draw
                                                                 jr
ld
OFB5 21 00 6A
0FB8 3E 4F
0FBA 06 03
0FBC
0FBC
                                                                                                                                                                 ; CODE XREF: 0000:0FC9|j; set sprite X pos
                                 erase_top_of_kong_ladder:
0FBC 77
0FBD 2C
0FBE 36 3A
                                                                 ld
inc
                                                                                  (hl), a
                                                                                  (hl), #0x3A; ':'
                                                                                                                                                                 ; set sprite tile (blank)
                                                                 ld
0FC0 2C
0FC1 36 0F
0FC3 2C
0FC4 36 18
                                                                 inc
ld
                                                                                 (hl), #0xF
                                                                                                                                                                 ; set sprite colour
                                                                 inc
ld
                                                                                 (hl), #0x18
                                                                                                                                                                 ; set sprite Y pos
0FC4 36 18
0FC6 2C
0FC7 C6 10
0FC9 10 F1
0FCB
0FCB
0FCC EF
0FCC EF
0FCC DFCD 00 00
0FCD 07 0F
0FD1 1F 10
0FD3 87 10
                                                                 inc
                                                                                  a, #0x10
                                                                                                                                                                 ; next X pos
; loop for 3 sprites
                                                                 djnz
                                                                                 erase_top_of_kong_ladder
                                                                                                                                                                 ; CODE XREF: 0000:0FB3<sup>†</sup>j; level type; go!
                                 loc_0_FCB:
                                                                                 a, c
0x28
                                                                 rst
                                                                 .dw RESET
.dw init_11_girder
.dw init_12_cement
.dw init_13_elevator
.dw init_14_rivets
                                                                                                                                                                  ; Jump table
0FD5 31 11
0FD7
OFD7
OFD7
OFD7
OFD7 21 DC 3D
OFDA 11 A8 69
OFDD 01 10 00
OFE0 ED B0
OFE2 21 EC 3D
OFE5 11 07 64
                                 init_l1_girder:
                                                                                                                                                                 ; DATA XREF: 0000:0FCF1o
                                                                                hl, #top_barrel_spr
de, #soft_sprite_ram+0xA8
bc, #0x10
                                                                                                                                                                 ; sprite #42, Y coord
; data for 4 sprites
; init
                                                                 ld
                                                                 1d
                                                                 ldir
ld
ld
                                                                                hl, #fireball_spr
de, #unk_0_6407
c, #0xlC
b, #5
init_data_for_B_sprites
hl, #girders_fireball_spr
init_fireball_sprite
hl, #girder_oil_barrel_spr
de, #soft_sprite_ram+0xFC
bc, #4
OFE8 OE 1C
                                                                                                                                                                 ; offset of each sprite
; do 5 sprites
                                                                 1d
OFEA 06 05
OFEC CD 2A 12
OFEF 21 F4 3D
                                                                 ld
call
ld
call
OFF2 CD FA 11
OFF5 21 00 3E
OFF8 11 FC 69
OFFB 01 04 00
OFFE ED B0
                                                                 ld
ld
                                                                 ld
                                                                                                                                                                 ; 1 sprite only ; init sprite
                                                                 ldir
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
hl, #girder_hammer_locs
init_hammer_sprites
                                                                                            hl, #barrel_init_data
de, #unk_0_6707
bc, #0x81C
init_data_for_B_sprites
de, #unk_0_6807
b, #2
                                                                                                                                                                                        ; 8 sprites, offset $1C
                                                                                                                                                                                        ; 2 sprites to copy
                                                                                             init_data_for_B_sprites
                                                                                                                                                                                        ; DATA XREF: 0000:10061o
                                                                                                                                                                                         ; DATA XREF: 0000:0FD1<sup>o</sup>
                                                                                            hl, #fireball_spr
de, #unk_0_6407
bc, #0x51C
init_data_for_B_sprites
                                                                                                                                                                                         ; 5 sprites, offset 0x1c
                                                                                            init_data_for_B_sprites
init_spring_sprites
hl, #ccment_pie_spr
de, #unk_0_65A7
bc, #0x60C
init_data_for_B_sprites
ix, #unk_0_65A0
hl, #soft_sprite_ram+0xB8
de, #0x10
b, #6
set_B_sprites_data
hl, #ccment_fireball_spr
init_fireball_sprite
hl, #ccment_oil_barrel_spr
de, #soft_sprite_ram+0xFC
bc, #4
                                                                                                                                                                                        ; 6 sprites, offset 0x0c
                                                                                                                                                                                         ; sprite #46-51
; offset 0x10
; 6 sprites to init
1041 11 10 00

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
                                                                         ld
call
ld
                                                                         call
ld
ld
                                                                                                                                                                                         ; sprite #63
                                                                          ld
1055 01 04 00

1058 ED B0

105A 21 1C 3E

105D 11 44 69

1060 01 08 00

1063 ED B0

1065 21 24 3E

1068 11 E4 69

106B 01 18 00
                                                                         ldir
ld
ld
                                                                                                                                                                                         ; init oil barrel sprite
                                                                                            hl, #cement_ladder_spr
de, #soft_sprite_ram+0x44
bc, #8
                                                                                                                                                                                         ; sprite #17-18
; 8 bytes = 2 sprits
                                                                          1d
                                                                         ldir
ld
ld
ld
                                                                                             hl, #cement_conveyor_spr
                                                                                            de, #soft_sprite_ram+0xE4
bc, #0x18
                                                                                                                                                                                         ; sprite #57-62
; 0x18 bytes = 6 sprites
106E 01 18 00
106E ED B0
1070 21 10 3E
1073 CD A6 11
1076 21 3C 3E
1079 11 0C 6A
107C 01 0C 00
                                                                         ldir
ld
call
ld
                                                                                            hl, #cement_hammer_locs
init_hammer_sprites
hl, #cement_obj_spr
de, #soft_sprite_ram+0x10C
bc, #0xC
                                                                                                                                                                                        ; hat, purse & umbrella
; sprites #67-69
; 12 bytes = 3 sprites
1076 21 3C
1079 11 0C
107C 01 0C
107F ED B0
                                                                          ld
ld
ldir
107 ED B0

1081 3E 01

1083 32 B9 62

1086 C9

1087

1087

1087

1087 21 EC 3D
                                                                                            a, #1
(unk_0_62B9), a
                                                                          ret
                                      init_13_elevator
                                                                                                                                                                                        ; DATA XREF: 0000:0FD310
                                                                                            hl, #fireball_spr
de, #unk_0_6407
bc, #0x51C
init_data_for_B_sprites
1087 21 EC 3D
108A 11 07 64
108D 01 1C 05
1090 CD 2A 12
1093 CD 86 11
1096 21 00 66
1099 11 10 00
109C 3E 01
109E 06 06
10A0
10A0
10A0
10A1 77
                                                                          ld
                                                                          1d
                                                                                                                                                                                         ; 5 sprites, offset 0x1c
                                                                                            init_spring_sprites
h1, #unk_0_6600
de, #0x10
a, #1
b, #6
                                                                          call
ld
                                                                          ld
                                     loc_0_10A0:
                                                                                                                                                                                        ; CODE XREF: 0000:10A2|j
                                                                                            (h1), a
h1, de
loc_0_10A0
c, #2
a, #8
                                                                           ld
                                                                          add
djnz
ld
10A1 19
10A1 19
10A2 10 FC
10A4 0E 02
10A6 3E 08
10A8
10A8 06 03
10AA 21 0D 66
10AD
10AD 77
10AE 19
10AF 10 FC
                                                                          ld
                                     loc_0_10A8:
                                                                                                                                                                                         ; CODE XREF: 0000:10B4/j
                                                                                            b, #3
h1, #unk_0_660D
                                                                          ld
                                      loc_0_10AD:
                                                                                                                                                                                        ; CODE XREF: 0000:10AF|j
                                                                                            (h1), a
h1, de
loc_0_10AD
a, #8
10AF 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
                                                                           add
                                                                          djnz
ld
dec
                                                                                           a, #0
c
NZ, loc_0_10A8
hl, #elevator_spr_locs
de, #unk_0_6603
bc, #0x60E
init_objects_locations
hl, #elevator_spr
de, #unk_0_6607
bc, #0x60C
init_data_for_B_sprites
ix, #unk_0_6600
hl, #soft_sprite_ram+0x58
b, #6
de, #0x10
set_B_sprites_data
hl, #elevator_obj_spr
de, #soft_sprite_ram+0x10C
bc, #0xC
                                                                          jp
ld
ld
                                                                          ld
call
                                                                                                                                                                                        ; 6 sprites, offset #0x0c
10C3 21 60 3E
10C6 11 07 66
10C9 01 0C 06
                                                                          ld
ld
                                                                                                                                                                                        ; 6 sprites, offset 0x0c
                                                                          ld
10CC CD 2A 12
10CF DD 21 00 66
10D3 21 58 69
10D6 06 06
                                                                         call
ld
ld
ld
; sprites #22-27
```

```
bc, #0x51C
init_data_for_B_sprites
hl, #rivet_hammer_locs
init_hammer_sprites
hl, #rivet_obj_spr
de, #soft_sprite_ram+0x10C
bc, #0xC
                                                                                                                                                                                                                                                       ; 5 sprites, offset 0x0c
                                                                                                                                                                                                                                                      ; sprite #67-69
; 0x0c bytes = 3 sprites
                                                                                                                          hl, #rivet_unk_obj_locs
de, #unk_0_64A3
bc, #0x21E
init_objects_locations
hl, #rivet_unk_sprites
de, #unk_0_64A7
bc, #0x21C
init_data_for_B_sprites
ix, #unk_0_64A0
0(ix), #1
0x20(ix), #1
hl, #soft_sprite_ram+0x50
b, #2
de, #0x20; ''
set_B_sprites_data
                                                                                                                                                                                                                                                      ; 2 sprites, offset 0x20
                                                                                                                                                                                                                                                       ; 2 sprites, offset $20
                                                                                                                                                                                                                                                       ; sprite #20-21
                                                                                                                                                                                                                                                       ; 2 sprites
; offset 0x20
                                                                                                                                                                                                                                                       ; DATA XREF: 0000:115A†o
; transparent squares over kong's legs
; DATA XREF: 0000:114E†o
1186
1186
1186
1188
21 A2 11
1189
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
119E CD D3 11
11A1 C9
11A1
11A1
                                                                                                                                                                                                                                                       ; CODE XREF: 0000:102B\p; 0000:1093\p
                                                 init_spring_sprites:
                                                                                                                          hl, #elevator_bouncing_spr
de, #unk_0_6507
bc, #0xAOC
init_data_for_B_sprites
ix, #unk_0_6500
hl, #soft_sprite_ram+0x80
b, #0xA
de, #0x10
set_B_sprites_data
                                                                                                    1d
                                                                                                   ld
call
ld
                                                                                                                                                                                                                                                      ; sprites 20-29
                                                                                                    1d
                                                                                                    1d
                                                                                                     1d
                                                                                                   call
ret
                                                  ; End of function init_spring_sprites
                                                                                                                                                                                                                                                      ; DATA XREF: init_spring_sprites o
                                                   ; SUBROUTINE
                                                                                                                                                                                                                                                       ; CODE XREF: 0000:1003<sup>†</sup>p
; 0000:1073<sup>†</sup>p ...
; object XPOS
; 2 sprites, offset=14
                                                                                                                          de, #unk_0_6683
bc, #0x20E
init_objects_locations
hl, #hammer_pickup_spr
de, #unk_0_6687
bc, #0x20C
init_data_for_B_sprites
ix, #unk_0_6680
0(ix), #1
0x10(ix), #1
hl, #soft_sprite_ram+0x118
b, #2
de, #0x10
set_B_sprites_data
                                                                                                                                                                                                                                                       ; object tile
; 2 sprites, offset inc=0x0C
                                                                                                                                                                                                                                                    ; sprite #70
                                                   ; SUBROUTINE SUBROUTINE
                                                                                                                                                                                                                                                       ; CODE XREF: 0000:1046\uparrowp ; 0000:10DB\uparrowp ...
                                                                                                                                                                                                                                                       ; set sprite X
                                                                                                                                                                                                                                                       ; set sprite tile
                                                                                                                                                                                                                                                       ; set sprite vflip/palette
11E1 2C
11E2 DD 7E 05
11E5 77
11E6 2C
                                                                                                   inc
ld
                                                                                                                            a, 5(ix)
(hl), a
                                                                                                    ld
                                                                                                                                                                                                                                                       ; set sprite Y
                                                                                                    inc
add
                                                                                                                            ix. de
                                                                                                                                                                                                                                                       ; next sprite data address
                                                                                                   djnz
                                                                                                                            set_B_sprites_data
                                                                                                   ret
                                                  ; End of function set_B_sprites_data
                                                   ; SUBROUTINE
                                                                                                                                                                                                                                                       ; CODE XREF: 0000:10C0<sup>†</sup>p; 0000:1157<sup>†</sup>p ...
                                                  init_objects_locations:
                                                                                                                           a, (hl)
(de), a
hl
e
                                                                                                     ld
                                                                                                                                                                                                                                                       ; copy byte 1
; next source byte
                                                                                                    inc
                                                                                                    inc
                                                                                                                            e
a, (hl)
                                                                                                                                                                                                                                                        ; skips destination byte
                                                                                                                            (de), a
                                                                                                                                                                                                                                                       ; copy byte 2
; next source byte
                                                                                                    1d
11F3 23

11F4 7B

11F5 81

11F6 5F

11F7 10 F3

11F9 C9

11F9

11F9

11FA

11FB

11F
                                                                                                    inc
                                                                                                                            hl
                                                                                                   ld
add
                                                                                                                                                                                                                                                       ; add offset to destination
; loop B times
                                                                                                   ld
                                                                                                   djnz
                                                                                                                            init_objects_locations
                                                 ret; End of function init_objects_locations
                                                            SUBROUTINE CONTINE
                                                                                                                                                                                                                                                       ; CODE XREF: 0000:0FF2\uparrowp; 0000:104C\uparrowp
                                                  init_fireball_sprite:
                                                                                                                           ix, #unk_0_66A0
de, #soft_sprite_ram+0x128
0(ix), #1
a, (h1)
3(ix), a
(de), a
                                                                          ld
                                                                                                                                                                                                                                                      ; sprite #74
                                                                                                   ld
1201 DD 36 00 01
1205 7E
1206 DD 77 03
1209 12
                                                                                                                                                                                                                                                      ; Y pos
                                                                                                   ld
                                                                                                                                                                                                                                                       ; sprite Y pos
```

File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
                                                                                                                                                                                                                                                      ; next sprite register
; next data byte
120A 1C
120B 23
120C 7E
120D DD 77 07
1210 12
1211 1C
1212 23
1213 7E
1214 DD 77 08
1217 12
1218 1C
1219 23
121A 7E
121B DD 77 05
                                                                                                                          hl
a, (hl)
7(ix), a
(de), a
                                                                                                   inc
                                                                                                   ld
ld
ld
                                                                                                                                                                                                                                                      ; flipy,tile
                                                                                                                                                                                                                                                           sprite flipy,tile
                                                                                                                                                                                                                                                           next sprite register
next data byte
                                                                                                   inc
                                                                                                                          e
hl
a, (hl)
8(ix), a
(de), a
                                                                                                                                                                                                                                                       ; flipx,colour
                                                                                                   ld
                                                                                                                                                                                                                                                      ; sprite flipx,colour
; next sprite register
; next data byte
; X pos
                                                                                                   1d
                                                                                                   inc
inc
ld
                                                                                                                          hl
a, (hl)
5(ix), a
(de), a
hl
a, (hl)
9(ix), a
121B DD 77 05
121E 12
121F 23
1220 7E
                                                                                                   ld
ld
                                                                                                                                                                                                                                                      ; sprite X pos
; next data byte
                                                                                                   inc
                                                                                                   1d
1220 7E
1221 DD 77 09
1224 23
1225 7E
1226 DD 77 0A
                                                                                                   ld
                                                                                                   inc
ld
                                                                                                                                                                                                                                                      ; next data byte
                                                                                                   ld
                                                                                                                            0xA(ix), a
1229 C9
1229
1229
1229
122A
                                                  ret; End of function init_fireball_sprite
122A
122A
122A
122A
122A
                                                   ; SUBROUTINE
122A E5 122A E5 122A E5 122A C6 06 04 122E 122E 122F 12 1231 1C 1231 1C 1232 10 FA 1234 C1 1235 E1 1236 7B 1237 81 1238 5F
                                                                                                                                                                                                                                                      ; CODE XREF: 0000:0FEC^{\uparrow}p; 0000:100F^{\uparrow}p ...
                                                  init_data_for_B_sprites:
                                                                                                                            hl
                                                                                                   push
                                                                                                   push
ld
                                                                                                                            bc
                                                                                                                           b, #4
                                                                                                                                                                                                                                                      ; 4 bytes/sprite
                                                 loc_0_122E:
                                                                                                                                                                                                                                                      ; CODE XREF: init_data_for_B_sprites+8|j
                                                                                                                           a, (hl)
(de), a
hl
                                                                                                   ld
                                                                                                    inc
                                                                                                   dinz
                                                                                                                            loc 0 122E
                                                                                                                                                                                                                                                      ; copy data for 1 sprite
                                                                                                   pop
pop
ld
                                                                                                                                                                                                                                                      ; restore source
                                                                                                                            a, e
a, c
add
                                                                                                                                                                                                                                                      ; next destination
                                                                                                   ld
djnz
                                                                                                                            e, a init_data_for_B_sprites
                                                                                                                                                                                                                                                      ; do B sprites
                                                  ; End of function init_data_for_B_sprites
                                                                                                                                                                                                                                                      ; DATA XREF: 0000:0718†o
                                                  init_mario:
                                                                                                                                                                                                                                                      ; 0000:074C\(\frac{1}{2}\)o
; wait for 8-bit countdown
                                                                                                   rst
                                                                                                                            0x18
                                                                                                                           a, (level_type)
#3
                                                                                                   ld
                                                                                                                                                                                                                                                      ; elevators?
; mario x,y coords
; yes, skip
                                                                                                   cp
ld
                                                                                                                           bc, #0xE016
Z, loc_0_124B
                                                                                                   jp
ld
                                                                                                                           bc, #0xF03F
                                                                                                                                                                                                                                                      ; mario x,y coords
                                                                                                                                                                                                                                                      ; CODE XREF: 0000:1245†j
                                                  loc_0_124B:
                                                                                                                          ix, #mario_alive_flag
hl, #soft_sprite_ram+0x4C
0(ix), #1
3(ix), c
                                                                                                                                                                                                                                                    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
flipy & tile=0
flipy & tile=0
flipy & tole
flipy &
                                                                                                   ld
                                                                                                   ld
                                                                                                   ld
ld
                                                                                                   ld
inc
                                                                                                                            (hl), c
7(ix), #0x80; 'Ç'
(h1), #0x80; 'Ç'
                                                                                                   ld
ld
                                                                                                   inc
                                                                                                                           8(ix), #2
(h1), #2
                                                                                                   ld
ld
                                                                                                   inc
                                                                                                                          1
5(ix), b
(h1), b
0xF(ix), #1
h1, #main_sequencer
(h1)
                                                                                                   ld
ld
ld
                                                                                                   1d
                                                                                                   inc
ld
call
                                                                                                                                                                                                                                                      ; next sequence (3)
; display_lives_and_level
                                                                                                                            de, #0x601
                                                                                                                            queue_fg_vector_fn
                                                                                                   ret
                                                                                                                                                                                                                                                      ; DATA XREF: 0000:071C\u00f10
; 0000:0750\u00f10
                                                  died in gameplay:
                                                                                                                           check_and_handle_bonus
a, (mario_death_state)
0x28
                                                                                                   call
ld
                                                                                                                                                                                                                                                      ; go!
                                                                                                   rst
1283 8B 12
1285 AC 12
1287 DE 12
                                                                                                   .dw delay_before_spin
.dw mario_death_spin
.dw dead_mario_lying_down
                                                                                                                                                                                                                                                      ; Jump Table
1287 DE 12
1289 00 00
1288
1288
1288
1288 DF
128C 21 4D 69
128F 3E F0
1291 CB 16
1293 1F
1294 77
1295 21 9D 63
1298 34
1299 3E 0D
                                                                                                    .dw 0
                                                                                                                                                                                                                                                     ; DATA XREF: 0000:1283\fo; wait for 8-bit countdown; sprite #19, tile; mario sprite << 1
                                                  delay before spin:
                                                                                                                           0x18
hl, #soft_sprite_ram+0x4D
a, #0xF0 ; '-'
(hl)
                                                                                                   ld
                                                                                                   rl
                                                                                                                          (h1), a
h1, #mario_death_state
(h1)
a, #0xD
(death_spin_counter), a
                                                                                                   1d
                                                                                                   inc
                                                                                                                                                                                                                                                      ; next death state
1299 3E 0D
129B 32 9E 63
129E 3E 08
12AO 32 09 60
                                                                                                   ld
ld
                                                                                                                           a, #8
(eight_bit_countdown), a
hide_object_sprites
a, #3
                                                                                                   1d
                                                                                                   ld
12A3 CD BD 30
12A6 3E 03
12A8 32 88 60
                                                                                                   call
ld
                                                                                                                            (music_something), a
                                                                                                   1d
12AB C9
12AC
12AC
                                                                                                                                                                                                                                                      ; DATA XREF: 0000:1285\u00f1o ; wait for 8-bit countdown
12AC
                                                  mario_death_spin:
12AC
12AC DF
12AD 3E 08
12AF 32 09 60
12B2 21 9E 63
                                                                                                   rst
ld
ld
                                                                                                                            0x18
                                                                                                                          0x18
a, #8
(eight_bit_countdown), a
hl, #death_spin_counter
(h1)
Z, finish_death_spin
hl, #soft_sprite_ram+0x4D
a, (h1)
                                                                                                   ld
12B5 35
12B6 CA CB 12
12B9 21 4D 69
12BC 7E
                                                                                                   dec
jp
ld
                                                                                                                                                                                                                                                      ; sprite #19 (mario)
; get flipy & code
; lsb to C
; sprite #1 <<1
; lsb to flipy</pre>
                                                                                                   ld
12BD 1F
12BE 3E 02
                                                                                                   rra
ld
                                                                                                                           a, #2
12C0 1F
12C1 47
                                                                                                                           b. a
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
12C3 77
12C4 2C
12C5 78
12C6 E6 80
                                                                                                                                                                                                                                                                                                                                                                              ; invert tile & flipy ; flipx & colour
                                                                                                                                                    1d
                                                                                                                                                                                         (hl), a
                                                                                                                                                   inc
ld
and
                                                                                                                                                                                        a, b
#0x80 ; 'Ç'
                                                                                                                                                                                                                                                                                                                                                                              ; flipy only
12C8 AE
12C9 77
                                                                                                                                                   xor
                                                                                                                                                                                         (hl)
14
                                                                                                                                                                                        (hl), a
                                                                                                                                                                                                                                                                                                                                                                              ; invert flip
                                                                           finish_death_spin:
ld
ld
                                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: 0000:12B6↑j; sprite #19 (mario); mario dead sprite <<1
                                                                                                                                                                                       hl, #soft_sprite_ram+0x4D
a, #0xF4 ; '¶'
(hl)
                                                                                                                                                                                                                                                                                                                                                                              ; flipy to C
; restore flipy
; update sprite
                                                                                                                                                    rl
                                                                                                                                                   rra
ld
                                                                                                                                                                                       (h1), a
h1, #mario_death_state
(h1)
                                                                                                                                                    1d
                                                                                                                                                   inc
ld
ld
                                                                                                                                                                                                                                                                                                                                                                              ; next state
                                                                                                                                                                                       (hl)
a, #0x80 ; 'Ç'
(eight_bit_countdown), a
                                                                                                                                                   ret
                                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: 0000:1287\u00e9o o ; wait for 8-bit countdown
                                                                          dead mario lying down:
                                                                                                                                                                                        0x18
                                                                                                                                                                                      UX18
sub_0_30DB
hl, #main_sequencer
a, (current_player_E)
a
Z, loc_0_12ED
(hl)
12DF CD DB 30
12E2 21 0A 60
12E5 3A 0E 60
12E8 A7
                                                                                                                                                   call
ld
                                                                                                                                                   1d
                                                                                                                                                                                                                                                                                                                                                                              ; player 1?
; yes, skip
                                                                                                                                                    and
12E8 A/
12E9 CA ED 12
12EC 34
12ED
                                                                                                                                                   jp
inc
12ED | 12ED | 12ED | 12ED | 12ED | 12ED | 34 | 12EE | 28 | 12F1 | C9 | 12F2 | 12F2 | 12F2 | 12F2 | 12F2 | 12F2 | 12F3 | AF | 12F6 | 32 | 2C | 62 | 12F9 | 21 | 28 | 62 | 12F0 | 35 | 1
                                                                          loc_0_12ED:
                                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: 0000:12E911
                                                                                                                                                   inc
                                                                                                                                                                                        (hl)
                                                                                                                                                                                                                                                                                                                                                                              ; eight_bit_countdown
                                                                                                                                                   dec
ld
                                                                                                                                                                                        hl
(hl), #1
                                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: 0000:071E10
                                                                           save_P1_ingame_data:
                                                                                                                                                   call
                                                                                                                                                                                        stop_sound
                                                                                                                                                                                        (seen intro), a
                                                                                                                                                    ld
                                                                                                                                                                                      (seen_intro), a
hl, #lives_left
(h1)
a, (h1)
de, #p1_ingame_data
bc, #8
                                                                                                                                                    ld
dec
ld
                                                                                                                                                   1d
                                                                                                                                                    14
                                                                                                                                                   and
                                                                           loc_0_1307:
                                                                                                                                                                                      NZ, loc_0_1334
a, #1
hl, #pl_score
sub_0_13CA
hl, #VRAM_start+0x2D4
a, (two_players)
                                                                                                                                                    jp
ld
                                                                                                                                                   1d
                                                                                                                                                   call
ld
ld
                                                                                                                                                   and
jr
ld
                                                                                                                                                                                      a Z, loc_0_1322 de, #0x302 queue_fg_vector_fn hl
                                                                                                                                                                                                                                                                                                                                                                             ; display_message_02
                                                                                                                                                  call
dec
                                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: 0000:1319 j
                                                                           loc_0_1322:
                                                                                                                                                                                      clear_14x5_HL
de, #0x300
queue_fg_vector_fn
hl, #eight_bit_countdown
(hl), #0xC0; 'L'
                                                                                                                                                   call
                                                                                                                                                    ld
                                                                                                                                                                                                                                                                                                                                                                              ; display_message_00
                                                                                                                                                   call
ld
ld
                                                                                                                                                                                       hl
(hl), #0x10
                                                                                                                                                   inc
ld
                                                                                                                                                    ret
                                                                          loc_0_1334:
                                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: 0000:1307<sup>†</sup> j
                                                                                                                                                                                      c, #8
a, (two_players)
a
Z, loc_0_133F
c, #0x17
                                                                                                                                                    ld
                                                                                                                                                   ld
and
                                                                                                                                                   jp
ld
                                                                           loc_0_133F:
                                                                                                                                                                                                                                                                                                                                                                               ; CODE XREF: 0000:133A1j
                                                                                                                                                   ld
                                                                                                                                                                                        (main_sequencer), a
                                                                                                                                                   ld
                                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: 0000:0720 o
                                                                           save_P2_ingame_data:
1344 CD 1C 01
1347 AF
1348 32 2C 62
1348 21 28 62
134E 35
134F 7E
1350 11 48 60
                                                                                                                                                   call
xor
                                                                                                                                                                                         stop_sound
                                                                                                                                                                                         a (seen_intro), a
                                                                                                                                                    ld
                                                                                                                                                                                      (seen_intro), a
hl, #lives_left
(hl)
a, (hl)
de, #p2_ingame_data
bc, #8
                                                                                                                                                   1d
                                                                                                                                                  dec
ld
ld
1353 01 08 00
1356 ED B0
1358 A7
1359 C2 7F 13
135C 3E 03
136C CD CA 13
136C 11 03 03
136A 11 00 03
136A 11 00 07
1370 21 D3 76
1373 CD 26 18
1376 21 09 60
1379 36 CO
1379 36 CO
1377 CD 26 18
1376 21 09 60
1379 36 CO
1377 CD 26 18
1376 C9
1377 C1 1377 C1 1377 C2 10
1378 C9
1377 C9 11
1378 C9
1379 1377 C9
1377
                                                                                                                                                  ld
ldir
                                                                                                                                                                                     a
NZ, loc_0_137F
a, #3
h1, #p2_score
sub_0_13cA
de, #0x303
queue_fg_vector_fn
de, #0x300
queue_fg_vector_fn
h1, #VRAM_start+0x2D3
clear_14x5_HL
h1, #eight_bit_countdown
(h1), #0xCO; 'L'
h1
                                                                                                                                                   and
                                                                                                                                                   jp
ld
ld
                                                                                                                                                   call
ld
                                                                                                                                                                                                                                                                                                                                                                             ; display_message_03
                                                                                                                                                   call
ld
call
ld
                                                                                                                                                                                                                                                                                                                                                                             ; display_message_00
                                                                                                                                                   call
ld
                                                                                                                                                   1d
                                                                                                                                                                                        (hl), #0x11
                                                                                                                                                   ret
                                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: 0000:1359<sup>†</sup>j; set to switch players?
                                                                           loc_0_137F:
                                                                                                                                                                                       c, #0x17
a, (p1_ingame_data)
                                                                                                                                                    ld
                                                                                                                                                    1d
                                                                                                                                                     and
                                                                                                                                                                                       NZ, loc_0_138A
c, #8
                                                                                                                                                   jp
ld
                                                                           loc_0_138A:
                                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: 0000:1385†j
                                                                                                                                                   1d
                                                                                                                                                                                        (main_sequencer), a
                                                                                                                                                   ret
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
138F | 138F | 138F | 138F | 138F | 138F | 139F | 1390 | 0E | 17 | 1392 | 3A | 48 | 60 | 1395 | 1395 | 1395 | 1396 | 1397 | C2 | 9C | 13 | 139A | 0E | 14 | 139C | 139C | 139D | 13A1 | 13A1 | 13A1 | 13A1 | 13A2 | 0E | 17 | 13A4 | 3A | 40 | 60 | 13A7 | C3 | 95 | 13 | 13AA | 13A
                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: 0000:0722<sup>†</sup>o ; wait for 8-bit countdown
                                                                       p1_game_over:
                                                                                                                                                                               0x18
c, #0x17
a, (p2_ingame_data)
                                                                                                                                             1d
                                                                        loc_0_1395:
                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: 0000:13A7|j
                                                                                                                                              inc
                                                                                                                                                                                (hl)
                                                                                                                                              and
                                                                                                                                                                               a
NZ, loc_0_139C
c, #0x14
                                                                        loc_0_139C:
                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: 0000:1397 1
                                                                                                                                             ld
ld
                                                                                                                                                                               a, c (main_sequencer), a
                                                                                                                                             ret
                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: 0000:0724<sup>†</sup>o ; wait for 8-bit countdown
                                                                       p2_game_over:
                                                                                                                                              rst
                                                                                                                                                                                0x18
                                                                                                                                                                               c, #0x17
a, (p1_ingame_data)
loc_0_1395
                                                                                                                                             ld
ld
                                                                                                                                              jр
                                                                                                                                                                                                                                                                                                                                                               ; DATA XREF: 0000:0726 o
                                                                        set_flip_and_current_P2:
                                                                                                                                                                             a, (upright)
(flipscreen), a
                                                                                                                                             ld
ld
13B0 AF
13B1 32 0A 60
13B4 21 01 01
                                                                                                                                             xor
ld
ld
                                                                                                                                                                              a (main_sequencer), a hl, #0x101 (current_player_D), hl
                                                                                                                                                                                                                                                                                                                                                              ; reset ingame sequencer
13B4 21 01 01 01 13B7 22 0D 60 13BB 13BB 13BB AF 13BC 32 0D 60 13C3 32 0A 60 13C5 3C 13C6 32 82 7D 13C9 C9 13C4
                                                                                                                                             1d
                                                                                                                                                                                                                                                                                                                                                              ; both current player flags to P2 \,
                                                                         set_flip_and_current_P1:
                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: 0000:0728 o
                                                                                                                                           xor
ld
                                                                                                                                                                                (current_player_D), a
(current_player_E), a
(main_sequencer), a
                                                                                                                                                                                                                                                                                                                                                               ; player 1
                                                                                                                                                                                                                                                                                                                                                              ; player 1
; reset ingame sequencer
; default flipscreen
                                                                                                                                             ld
                                                                                                                                            ld
inc
                                                                                                                                                                                a (flipscreen), a
                                                                                                                                             ld
                                                                                                                                            ret
13CA
13CA
13CA
13CA
                                                                        ; SUBROUTINE CONTINE
13CA

13CA

13CA

13CA

13CD 12

13CE CF

13CF 13

13CD 01 03 00

13D3 ED B0

13D5 06 03

13D7 21 B1 61

13DA

13DA

13DA

13DA

13DA

13DA

13DA 18

13DB 1A

13DB 1A
                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: 0000:130F<sup>†</sup>p; 0000:1361<sup>†</sup>p
                                                                        sub_0_13CA:
                                                                                                                                                                              de, #unk_0_61C6
(de), a
8
                                                                                                                                             ld
                                                                                                                                             ld
rst
                                                                                                                                                                                                                                                                                                                                                               ; return if attract mode
                                                                                                                                                                                de
                                                                                                                                              inc
                                                                                                                                                                               bc, #3
                                                                                                                                              1d
                                                                                                                                             ldir
ld
ld
                                                                                                                                                                              b, #3
hl, #unk_0_61B1
                                                                        loc_0_13DA:
                                                                                                                                                                                                                                                                                                                                                            ; CODE XREF: sub_0_13CA+1F|j
                                                                                                                                             dec
ld
                                                                                                                                                                               de
a, (de)
                                                                                                                                             rrca
rrca
rrca
13DD 0F
13DD 0F
13DD 0F
13DD 0F
13DF 0F
13E0 E6 0F
13E2 77
13E8 23
13E4 1A
13E5 E6 0F
13E7 77
13E8 23
13E9 10 EF
13ED 06 0E
13ED 13ED 13ED 13ED 13ED 13ED 13EF 23
13F0 10 FB
13FC 21 A5 61
13FC 21 A5 61
13FC 1A 
                                                                                                                                             rrca
and
ld
inc
                                                                                                                                                                                #0xF
                                                                                                                                                                               #0xF
(hl), a
hl
a, (de)
#0xF
                                                                                                                                              ld
                                                                                                                                             and
ld
inc
                                                                                                                                                                                 (hl), a
                                                                                                                                                                               loc_0_13DA
b, #0xE
                                                                                                                                             djnz
ld
                                                                                                                                                                                                                                                                                                                                                             ; CODE XREF: sub 0 13CA+26 -
                                                                      loc 0 13ED:
                                                                                                                                            ld
inc
djnz
ld
                                                                                                                                                                                (hl), #0x10
                                                                                                                                                                               hl
loc_0_13ED
                                                                                                                                                                             loc_U_13ED
(h1), #0x3F; '?'
b, #5
h1, #hs_tbl_5th+0x1D
de, #unk_0_61C7
                                                                                                                                             ld
ld
ld
                                                                        loc_0_13FC:
                                                                                                                                                                                                                                                                                                                                                              ; CODE XREF: sub_0_13CA+51|j
                                                                                                                                                                              a, (de)
(hl)
hl
                                                                                                                                             sub
inc
inc
ld
sbc
                                                                                                                                                                              de
a, (de)
a, (hl)
hl
de
                                                                                                                                             inc
inc
ld
sbc
                                                                                                                                                                             a, (de)
a, (hl)
C
                                                                                                                                             ret
push
ld
                                                                                                                                                                              bc
b, #0x19
                                                                      loc_0_140A:
                                                                                                                                                                                                                                                                                                                                                             ; CODE XREF: sub_0_13CA+47|j
                                                                                                                                             ld
ld
ld
                                                                                                                                                                               a, (de)
(hl), a
a, c
(de), a
140C 77
140D 79
140E 12
140F 2B
1410 1B
                                                                                                                                             ld
ld
                                                                                                                                             dec
dec
                                                                                                                                                                                hl
de
                                                                                                                                                                              de loc_0_140A bc, #0xFFF5 hl, bc de, hl hl, bc de, hl
                                                                                                                                             djnz
ld
                                                                                                                                             add
                                                                                                                                             ex
add
                                                                                                                                              ex
                                                                                                                                            pop
djnz
                                                                                                                                                                               loc_0_13FC
                                                                        ; End of function sub_0_13CA
                                                                       draw name registered:
                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: 0000:072A o
                                                                                                                                             call
                                                                                                                                                                                display_credits
                                                                                                                                                                               0x18
clear_visible_area_and_sprites
                                                                                                                                                                                                                                                                                                                                                              ; wait for 8-bit countdown
                                                                                                                                             ld
                                                                                                                                                                                (current_player_E), a
                                                                                                                                             14
                                                                                                                                                                                                                                                                                                                                                              ; player 1
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
                                                                                       (current_player_D), a
hl, #high_score_tbl_ram+0xlC
de, #0x22; '"'
b, #5
a, #1
; player 1
                                                                       ld
                                                                      ld
ld
ld
                                   loc_0_1437:
                                                                                                                                                                               ; CODE XREF: 0000:143C-j
                                                                                      (nl)
Z, loc_0_1459
h1, de
loc_0_1437
h1, #high_score_tbl_ram+0x1C
b, #5
a, #3
                                                                       ср
                                                                      jp
add
djnz
ld
ld
                                                                      1d
                                   loc_0_1445:
                                                                                                                                                                              ; CODE XREF: 0000:144A|j
                                                                                        (hl)
                                                                      CD
                                                                                       Z, loc_0_144F
hl, de
loc_0_1445
                                                                      jp
add
djnz
                                                                       jр
                                                                                        exit name entry
                                                                                                                                                                               ; CODE XREF: 0000:1446<sup>†</sup> j
                                   loc 0 144F:
                                                                                        a, #1
(current_player_E), a
(current_player_D), a
                                                                       ld
                                                                                                                                                                               ; player 2 ; player 2
                                                                      ld
                                                                                        a, #0
                                    loc_0_1459:
                                                                                                                                                                               ; CODE XREF: 0000:1438 j
                                                                                       hl, #upright (hl)
                                                                       ld
1450 86
145D 32 82 7D
1460 3E 00
1462 32 09 60
1465 21 0A 60
1468 34
1469 11 0D 03
146C 06 0C
146E
146E
146E
146E
1471 13
1472 10 FA
1474 C9
1475
1475
1475
1475
                                                                                       (h1)
(flipscreen), a
a, #0
(eight_bit_countdown), a
hl, #main_sequencer
(h1)
de, #0x30D
b, #0xC
                                                                      ld
ld
ld
ld
                                                                      ld
ld
                                                                                                                                                                               ; display_message_0D
                                   loc_0_146E:
                                                                                                                                                                              ; CODE XREF: 0000:1472-j
                                                                       call
                                                                                        queue_fg_vector_fn
                                                                       inc
                                                                                        loc_0_146E
                                                                      djnz
                                                                                                                                                                              ; CODE XREF: 0000:144C i
                                    exit_name_entry:
                                                                                       a, #1
(flipscreen), a
(nmi_sequencer), a
(attract_mode_flag), a
a, #0
(main_sequencer), a
1475 3E 01
1477 32 82 7D
1477 32 82 7D
1477 32 05 60
147D 32 07 60
1480 3E 00
1482 32 0A 60
1485 C9
1486 1486
1486 1486
1486 1486 1486
1486 2D 16 06
1489 21 09 60
1482 7E
148D A7
148E C2 DC 14
1491 32 86 7D
1494 32 87 7D
1494 33 1495 36 10
1444 23
1445 36 1E
1447 23
1448 36 3E
                                                                      ld
ld
                                                                      ld
                                                                      ld
ld
                                                                                                                                                                               ; set attract mode flag
                                                                      ld
                                                                      ret
                                                                                                                                                                               ; DATA XREF: 0000:072C1o
                                   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
ld
                                                                                       hl
(hl), #0
                                                                      inc
ld
                                                                                       hl
(hl), #0x10
                                                                      inc
                                                                      ld
inc
ld
                                                                                        (hl), #0x1E
                                                                                       hl
(hl), #0x3E; '>'
14AA 23

14AB 36 00

14AB 21 E8 75

14BO 22 36 60

14B3 21 1C 61

14B6 3A 0E 60

14B9 07

14BA 3C

14BB 4F

14BC 11 22 00

14BF 06 04

14C1 7E

14C1 7E

14C1 7E

14C1 7E

14C2 89

14C3 CA C9 14

14C6 19

14C7 10 F8

14C9 22 38 60
                                                                      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
                                                                      inc
                                                                                       c, a
de, #0x22; '"'
b, #4
                                                                      ld
                                   loc 0 14C1:
                                                                                                                                                                               ; CODE XREF: 0000:14C7-i
                                                                       ld
                                                                                        a, (hl)
                                                                                       c
Z, loc_0_14C9
hl, de
loc_0_14C1
                                                                       ср
                                                                       jр
                                                                       add
                                                                                                                                                                               ; CODE XREF: 0000:14C3^j
                                   loc 0 14C9:
14C9
14C9 22 38 60
14CC 11 F3 FF
14CF 19
14D0 22 3A 60
14D3 06 00
14D5 3A 35 60
14D8 4F
14D9 CD FA 15
                                                                      ld
ld
add
                                                                                       (unk_0_6038), hl
de, #0xFFF3
hl, de
(unk_0_603A), hl
                                                                                                                                                                               ; point to high score
                                                                       1d
                                                                      ld
ld
ld
                                                                                       b, #0
a, (unk_0_6035)
                                                                                        sub_0_15FA
                                                                      call
                                                                                                                                                                               ; high score initial select sprite
14DC
14DC
14DC 21 34 60
14DF 35
                                                                                                                                                                               ; CODE XREF: 0000:148E↑j
                                    loc_0_14DC:
                                                                                       hl, #unk_0_6034 (hl)
                                                                      1d
dec
                                                                                        NZ, loc_0_14FC
(hl), #0x3E; '>'
                                                                       jp
ld
                                                                      dec
                                                                                        hl
                                                                                        (hl)
Z, loc_0_15C6
a, (hl)
                                                                      dec
jp
ld
                                                                                       b, #0xFF
                                                                      1d
                                   loc_0_14ED:
                                                                                                                                                                               ; CODE XREF: 0000:14F0|j
                                                                       inc
                                                                                       b
#0xA
NC, loc_0_14ED
a, #0xA
(VRAM_start+0x152), a
                                                                      sub
                                                                      jp
add
ld
                                                                       ld
                                                                                        (VRAM_start+0x172), a
14FC
14FC 21 30 60
                                   loc_0_14FC:
                                                                                                                                                                              ; CODE XREF: 0000:14E017
                                                                      14
                                                                                       hl, #unk_0_6030
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
                                                                                                                                                  b, (h1)
(h1), #0xA
a, (controller_in)
7, a
NZ, jump_pressed
1500 36 0A

1502 3A 10 60

1505 CB 7F

1507 C2 46 15

150A E6 03

150C C2 14 15

150F 3C

1510 77

1511 C3 8A 15

1514 U5

1514 U5

1514 U5

1515 CA 1D 15

1518 78

1519 77

151A C3 8A 15

151B 78

151B 78

151D CB 4F

151D CB 4F

151D CB 4F

151D CB 4F

151C C2 39 15

1522 3A 35 60

1525 3C
                                                                                                                      1d
                                                                                                                                                                                                                                                                                                    ; edge-detected inputs
; button pressed?
; yes, skip
; left/right only
; yes, skip
                                                                                                                      jp
and
                                                                                                                                                   #3
                                                                                                                      jp
inc
ld
                                                                                                                                                   NZ, left_right_pressed
                                                                                                                                                  a
(hl), a
loc_0_158A
                                                                                                                      jр
                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:150C↑j
                                                            left_right_pressed:
                                                                                                                                                  b
Z, loc_0_151D
a, b
(h1), a
                                                                                                                      1d
                                                                                                                                                   loc_0_158A
                                                           loc_0_151D:
                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:151514
                                                                                                                                                  1, a
NZ, loc_0_1539
a, (unk_0_6035)
                                                                                                                      bit
                                                                                                                       jp
1d
                                                                                                                      inc
1525 3C
1526 FE 1E
1528 C2 2D 15
152B 3E 00
152D
                                                                                                                                                  #0x1E
NZ, loc_0_152D
a, #0
                                                                                                                      ср
                                                                                                                      jp
ld
152D
152D
152D 32 35 60
152D
                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:1528<sup>†</sup>j; 0000:153E<sup>†</sup>j ...
                                                           loc_0_152D:
                                                                                                                                                   (unk_0_6035), a
                                                                                                                      ld
1530 4F
1531 06 00
1533 CD FA 15
1539 C3 8A 15
1539 S3A 35 60
1532 D6 01
1532 D6 01
1532 D7 15
1543 C3 2D 15
1543 C3 2D 15
1543 C3 2D 15
1546 CA 6D 15
1546 CA 6D 15
1548 CA 6D 15
1554 DA 7
1555 CA C6 15
1553 CA 36 60
1555 AF 16
1556 CA C6 15
1557 OA 7
1557 OA 7
1558 CA 8A 15
1550 CA C6 15
1550 CA C6 15
1551 CA 8A 15
1552 CA 8A 15
1553 CA 8A 15
1554 CD 42
1555 CA 8A 15
1556 D 42
1557 OA 8A 15
1560 C6 11
1562 77
1566 OB 1564 CA 8A 15
1560 C6 11
1562 77
1578 CA 8A 15
1558 CA 8A 15
1560 C6 11
1562 CA 8A 15
1550 CA 8A 15
1560 CA 8A 1
                                                                                                                      ld
ld
call
                                                                                                                                                  c, a
b, #0
sub_0_15FA
loc_0_158A
                                                                                                                       qį
                                                           loc_0_1539:
                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:151F†j
                                                                                                                                                  a, (unk_0_6035)
#1
P, loc_0_152D
a, #0x1D
loc_0_152D
                                                                                                                      ld
                                                                                                                      sub
jp
ld
                                                            jump_pressed:
                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:1507<sup>†</sup> †
                                                                                                                                                  a, (unk_0_6035)
#0x1C
Z, loc_0_156D
#0x1D
                                                                                                                      14
                                                                                                                      ср
                                                                                                                      jр
                                                                                                                      cp
jp
ld
ld
                                                                                                                                                  Z, loc_0_15C6
hl, (unk_0_6036)
bc, #VRAM_start+0x188
                                                                                                                                                 bc, #VRAM_star

a h1, bc

Z, loc_0_158A

h1, bc

a, #0x11

(h1), a

bc, #0xFFE0

h1, bc
                                                                                                                      and
sbc
                                                                                                                      jp
add
                                                                                                                      add
ld
ld
                                                                                                                      add
                                                            loc_0_1567:
                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:1583/j
                                                                                                                                                   (unk_0_6036), hl loc_0_158A
                                                                                                                      jр
                                                           loc_0_156D:
                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:154B†j
                                                                                                                                                  hl, (unk_0_6036)
bc, #0x20; ''
hl, bc
                                                                                                                      ld
                                                                                                                      ld
add
                                                                                                                      and
                                                                                                                                                  bc, #VRAM_start+0x208
hl, bc
NZ, loc_0_1586
hl, #VRAM_start+0x1E8
                                                                                                                      1d
                                                            loc_0_1580:
                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:1587/j
                                                                                                                                                   a, #0x10
                                                                                                                                                   (hl), a loc_0_1567
                                                                                                                      ld
                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:157A1 i
                                                            loc_0_1586:
                                                                                                                                                   hl, bc
loc_0_1580
                                                                                                                      add
                                                                                                                      jр
                                                            loc_0_158A:
                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:1511<sup>†</sup> j ; 0000:151A<sup>†</sup> j ...
158A 21 32 60

158B 35

158E C2 F9 15

1591 3A 31 60

1594 A7

1595 C2 B8 15

1598 3E 01

159A 32 31 60

159A 32 31 60

1550 11 BF 01

15A0 FD 2A 38 60

15A4 FD 6E 04

15A7 FD 66 05

15AA E5

15AB DD E1

15BA 25

15BB 05 E1

15BB 22 32 32 60

15B5 C3 F9 15

15B8 15B8

15B8 15B8

15B8 AF
                                                                                                                                                  hl, #unk_0_6032
(hl)
NZ, locret_0_15F9
a, (unk_0_6031)
                                                                                                                      ld
                                                                                                                      dec
jp
ld
                                                                                                                      and
                                                                                                                                                  NZ, loc_0_15B8
a, #1
(unk_0_6031), a
de, #byte_0_1BD+2
                                                                                                                      ld
                                                                                                                                                                                                                                                                                                    ; empty/dummy score
                                                                                                                                                 iy, (unk_0_6038)
1, 4(iy)
h, 5(iy)
h1
                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:15C3|j; ptr high score
                                                            loc_0_15A0:
                                                                                                                      ld
                                                                                                                      ld
                                                                                                                      ld
push
                                                                                                                      pop
call
ld
ld
                                                                                                                                                  display_score_HL
a, #0x10
(unk_0_6032), a
locret_0_15F9
                                                                                                                      jр
                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:1595<sup>†</sup>j
                                                           loc_0_15B8:
15B8 AF
15B6 AF
15B9 32 31 60
15BC ED 5B 38 60
15C0 13
15C1 13
                                                                                                                                                  (unk_0_6031), a
de, (unk_0_6038)
de
                                                                                                                      ld
ld
                                                                                                                                                                                                                                                                                                    ; point to high score
                                                                                                                      inc
                                                                                                                      inc
                                                                                                                                                   de
15C2 13
15C3 C3 A0 15
15C6
15C6
                                                                                                                                                   loc_0_15A0
                                                                                                                      jр
15C6 loc_0_15C6:
15C6 ED 5B 38 60
                                                                                                                                                                                                                                                                                                    ; CODE XREF: 0000:14E7<sup>†</sup>j; 0000:1550<sup>†</sup>j
15C6
15CA AF
                                                                                                                      1d
                                                                                                                                                  de, (unk_0_6038)
                                                                                                                                                                                                                                                                                                     ; point to high score
                                                                                                                      xor
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
15CB 12
15CC 21 09 60
15CF 36 80
15D1 23
15D2 35
                                                                                                               (de), a
hl, #eight_bit_countdown
(hl), #0x80; 'ç'
hl
(hl)
                                                                                          ld
                                                                                          ld
inc
dec
15D1 23
15D2 35
15D3 06 0C
15D5 21 E8 75
15D8 FD 2A 3A 60
15DC 11 E0 FF
15DF
15DF
15DF 7E
15DF 7E
15EA FD 23
15EB 19
15EA 11 14 03
15EA 11 14 03
15ED 0 9F 30
15F0 13
15F1 10 FA
15F3 11 1A 03
15F6 CD 9F 30
15F9 15F9
15F9 C9
15F9 15F9
                                                                                          ld
ld
ld
ld
                                                                                                               h, #0xC
h1, #VRAM_start+0x1E8
iy, (unk_0_603A)
de, #0xFFE0
                                              loc_0_15DF:
                                                                                                                                                                                                                              ; CODE XREF: 0000:15E6|j
                                                                                                               a, (hl)
0(iy), a
                                                                                          ld
ld
                                                                                                               iy
hl, de
loc_0_15DF
b, #5
de, #0x314
                                                                                          inc
add
                                                                                          djnz
                                                                                          1d
                                                                                          1d
                                                                                                                                                                                                                               ; display_message_14
                                             loc_0_15ED:
                                                                                                                                                                                                                               ; CODE XREF: 0000:15F1|j
                                                                                                               queue_fg_vector_fn
de
loc_0_15ED
de, #0x31A
queue_fg_vector_fn
                                                                                          call
                                                                                          inc
djnz
                                                                                                                                                                                                                               ; display message 1A
                                                                                          ld
call
                                                                                                                                                                                                                               ; CODE XREF: 0000:158E<sup>†</sup>j; 0000:15B5<sup>†</sup>j
                                              locret_0_15F9:
                                                                                        ret
15FA
15FA
15FA
                                              ; INTERESTINATION S U B R O U T I N E
15FA
15FA
15FA D5
15FA
                                                                                                                                                                                                                               ; CODE XREF: 0000:14D9\p; 0000:1533\p
                                             sub_0_15FA:
                                                                                          push
15FA
15FB E5
15FC CB 21
15FE 21 OF 36
1601 09
1602 EB
1603 21 74 69
1606 1A
1607 13
                                                                                          push
sla
ld
                                                                                                               hl
                                                                                                               c
hl, #letter_coords
hl, bc
de, hl
hl, #soft_sprite_ram+0x74
a, (de)
de
                                                                                          add
                                                                                          ex
ld
ld
                                                                                                                                                                                                                              ; sprite for initials entry
                                                                                          inc
1608 77
1609 23
1600 36 72
1600 23
1600 36 0C
1600 36 0C
1601 23
1610 1A
1611 77
1612 E1
1613 D1
1614 C9
1614 1615
1615 CD BD 30
1616 3A 27 62
1618 3A 27 62
1618 3A 27 62
1618 0F
161C D2 2F 16
161F 3A 88 63
1622 EF
1622 EF
1622 EF
1622 EF
1622 EF
1623 54 16
1625 70 16
1627 8A 16
1629 32 17
1628 57 17
1628 57 17
1629 32 17
1629 32 17
1629 32 17
1629 32 17
1630 D2 41 16
1633 3A 88 63
1636 EF
1637 A3 16
1639 BB 16
1634 BB 17
                                                                                                               (hl), a
hl
(hl), #0x72; 'r'
                                                                                          ld
inc
                                                                                                                                                                                                                               ; X coordinate
                                                                                          ld
                                                                                                                                                                                                                              ; tile
                                                                                          inc
                                                                                                               (h1), #0xC
h1
a, (de)
(h1), a
                                                                                                                                                                                                                               ; palette
                                                                                          inc
                                                                                          1d
                                                                                          ld
                                                                                                                                                                                                                               ; Y coordinate
                                                                                          pop
                                                                                          pop
                                                                                                               de
                                             ; End of function sub_0_15FA
                                              mario_pauline_reunion:
call
ld
                                                                                                                                                                                                                               ; DATA XREF: 0000:072E10
                                                                                                               hide_object_sprites a, (level_type)
                                                                                          rrca
                                                                                                               NC, loc_0_162F
a, (unk_0_6388)
0x28
                                                                                          jp
ld
                                                                                                                                                                                                                               ; go!
                                                                                          rst
                                                                                          .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
                                              loc_0_162F:
                                                                                                                                                                                                                               ; CODE XREF: 0000:161C<sup>†</sup>j
                                                                                          rrca
                                                                                                               NC, loc_0_1641
a, (unk_0_6388)
0x28
                                                                                          rst
                                                                                                                                                                                                                               ; go!
                                                                                          .dw loc_0_16A3
.dw loc_0_16BB
.dw loc_0_1732
.dw loc_0_1757
.dw loc_0_178E
                                                                                                                                                                                                                               ; Jump table
                                              loc 0 1641:
                                                                                                                                                                                                                              ; CODE XREF: 0000:1630<sup>†</sup> †
1641
1641 CD BD 1D
1644 3A 88 63
1647 EF
1647
1648 B6 17
1648 69 30
164C 39 18
                                                                                          call
ld
rst
                                                                                                               check_and_handle_bonus
a, (unk_0_6388)
0x28
                                                                                                                                                                                                                               ; gol
                                                                                           .dw unk_0_17B6
                                                                                                                                                                                                                               ; Jump table
                                                                                          .uw unk_U_1/Bb
.dw wait_and_inc_sequence
.dw loc_0_1839
.dw loc_0_186F
.dw loc_0_1880
.dw loc_0_18C6
164C 39 18

164E 6F 18

1650 80 18

1652 C6 18

1654

1654 CD 08 17

1657 21 5C 38

165A CD 4E 00

165D 3E 20

165F 32 09 60

1662
                                              loc_0_1654:
                                                                                                                                                                                                                               ; DATA XREF: 0000:162310
                                                                                                               sub_0_1708
hl, #dk_normal_spr
                                                                                          call
ld
                                                                                          call
ld
                                                                                                                copy_sprites_2_11_data
a, #0x20; ''
                                                                                                                a, #0x20 ; (eight_bit_countdown), a
                                                                                          ld
1662
1662 21 88 63
1665 34
1666 3E 01
1668 F7
1669 21 0B 69
                                              loc_0_1662:
                                                                                                                                                                                                                               ; CODE XREF: 0000:16A0|j
                                                                                                               hl, #unk_0_6388
(hl)
a, #1
0x30
hl, #soft_sprite_ram+0xB
c, #0xFC; '3'
0x38
                                                                                          ld
                                                                                          inc
                                                                                          ld
rst
ld
                                                                                                                                                                                                                               ; return if level bit not set ; sprite #2, x coord ; -4
1669 21 0B 69
166C 0E FC
166E FF
166F C9
1670 0
1670 DF
1671 21 32 39
1674 CD 4E 00
1677 3E 20
1679 32 09 60
167C 21 88 63
                                                                                          1d
                                                                                                                                                                                                                               ; subtract 4 from x coord for 10 sprites
                                                                                                                                                                                                                               ; DATA XREF: 0000:1625\uparrowo ; wait for 8-bit countdown
                                             loc_0_1670:
                                                                                                               0x18
hl, #dk_throw_barrel_spr
copy_sprites_2_ll_data
a, #0x20; ''
(eight_bit_countdown), a
                                                                                           rst
                                                                                          ld
call
                                                                                          ld
ld
                                                                                          1d
                                                                                                                hl, #unk_0_6388 (hl)
                                                                                          inc
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
1680 3E 04
1680 3E 04
1682 F7
1683 21 0B 69
1686 0E 04
1688 FF
1689 C9
168A
168A
168A
168A DF
168B 21 8C 38
168E CD 4E 00
1691 3E 66
                                                                                                                                                                 ; return if level bit not set
; sprite #2, x coord
; +4
; add 4 to x coord for 10 sprites
                                                                                 0x30
                                                                 rst
                                                                ld
ld
rst
                                                                                hl, #soft_sprite_ram+0xB
c, #4
0x38
                                                                ret
                                                                                                                                                                 ; DATA XREF: 0000:1627†o ; wait for 8-bit countdown
                                loc_0_168A:
                                                                                0x18
hl, #dk_climbing_spr
copy_sprites_2_11_data
a, #0x66; 'f'
                                                                rst
                                                                ld
call
ld
1691 3E 66
1693 32 0C 69
1696 AF
1697 32 24 69
169A 32 2C 69
169D 32 AF 62
16AO C3 62 16
16A3
16A3
                                                                1d
                                                                                 (soft_sprite_ram+0xC), a
                                                                                                                                                                ; sprite #3, y coord
                                                                 xor
ld
                                                                                 (soft_sprite_ram+0x24), a
                                                                                (soft_sprite_ram+0x2C), a (byte_0_62AF), a loc_0_1662
                                                                 1d
                                                                 ld
                                                                 jp
16A3
                                 loc_0_16A3:
                                                                                                                                                                 ; DATA XREF: 0000:1637 o
16A3 CD 08 17 16A6 3A 10 69 16A9 D6 3B 16AB 21 5C 38 16AE CD 4E 00 16B1 21 08 69 16B4 4F
                                                                                sub_0_1708
a, (soft_sprite_ram+0x10)
#0x3B; ';'
h1, #dk_normal_spr
copy_sprites_2_11_data
h1, #soft_sprite_ram+8
c, a
0x38
h1, #unk 0 6388
                                                                 call
                                                                                                                                                                ; sprite #4, y coord
                                                                ld
sub
                                                                ld
call
                                                                                                                                                                 ; sprite #2, y coord
                                                                 ld
ld
1684 4F
1685 FF
1686 21 88 63
1689 34
                                                                rst
ld
inc
                                                                                hl, #unk_0_6388
(hl)
                                                                                                                                                                 ; add C to y coord for 10 sprites
16BA C9
16BB
16BB
16BB
                                                                ret
                                                                                                                                                                ; DATA XREF: 0000:16391o
                                 loc 0 16BB:
16BB AF 16BB AF 16BC 32 A0 62 16BF 3A A3 63 16C2 4F 16C3 3A 10 69 16C6 FE 5A 16C8 DZ E1 16 16CB CB 79
                                                                                (unk_0_62A0), a
a, (unk_0_63A3)
c, a
                                                                ld
ld
                                                                 ld
                                                                                c, a
a, (soft_sprite_ram+0x10)
#0x5A; 'Z'
NC, loc_0_16E1
7, c
z, loc_0_16D5
                                                                ld
cp
                                                                                                                                                                ; sprite #4, y coord
                                                                jp
bit
16D0
16D0 3E 01
                                loc_0_16D0:
                                                                                                                                                                 ; CODE XREF: 0000:16E8-j
                                                                                 a, #1
(unk_0_62A0), a
16D2 32 A0 62
16D5
16D5
16D5 CD 02 26
16D5
16D8 3A A3 63
                                                                                                                                                                 ; CODE XREF: 0000:16CD11
                                loc_0_16D5:
                                                                                                                                                                 ; 0000:16EB|j
                                                                                sub_0_2602
a, (unk_0_63A3)
c, a
hl, #soft_sprite
                                                                 call
                                                                 ld
16DB 4F
16DC 21 08 69
16DF FF
16E0 C9
                                                                ld
ld
                                                                                         #soft_sprite_ram+8
                                                                                                                                                                 ; sprite #2, y coord
; add C to y coord for 10 sprites
                                                                rst
                                                                ret
16E0 C9
16E1
16E1
16E1 FE 5D
16E3 DA EE 16
16E6 CB 79
16E8 CA DO 16
16EB C3 D5 16
16EE
                                 loc_0_16E1:
                                                                                                                                                                 ; CODE XREF: 0000:16C8†j
                                                                                #0x5D; ']'
C, loc_0_16EE
7, c
Z, loc_0_16D0
                                                                 ср
                                                                 qį
                                                                                 loc 0 16D5
                                                                 jp
16EE
16EE
16EE
16EE 21 8C 38
16F1 CD 4E 00
16F4 3E 66
16F6 32 0C 69
                                loc_0_16EE:
                                                                                                                                                                ; CODE XREF: 0000:16E3†j
                                                                                h1, #dk_climbing_spr
copy_sprites_2_11_data
a, #0x66; 'f'
(soft_sprite_ram+0xC), a
                                                                1d
                                                                call
ld
ld
                                                                                                                                                                ; sprite #4, x coord
                                                                                (soft_sprite_ram+0x24), a (soft_sprite_ram+0x2C), a (byte_0_62AF), a hl, #unk_0_6388 (hl)
xor
ld
ld
                                                                 1d
                                                                1d
                                                                ret
                                 ; SUBROUTINE SUBROUTINE
                                                                                                                                                                 ; CODE XREF: 0000:1654<sup>p</sup>; 0000:16A3<sup>p</sup>
                                sub_0_1708:
                                                                                 stop_sound
                                                                                hl, #soft_sprite_ram+0x120
(hl), #0x80; 'C'
                                                                ld
ld
                                                                inc
ld
                                                                                hl
(hl), #0x76; 'v'
                                                                 inc
                                                                ld
inc
ld
ld
                                                                                 (hl), #9
                                                                                (h1), #9
h1
(h1), #0x20; ''
h1, #soft_sprite_ram+5
(h1), #0x13
h1, #VRAM_start+0x1C4
de, #0x20; ''
a, #0x10
                                                                                                                                                                 ; sprite #1, flipy & code
1710 21 05 69

171C 36 13

171E 21 C4 75

1721 11 20 00

1724 3E 10

1726 CD 14 05

1729 21 8A 60

172C 36 07

172E 23

172F 26 03
                                                                ld
ld
ld
                                                                                                                                                                 ; pauline, front-on
                                                                ld
                                                                call
ld
ld
                                                                                display_3_tiles_HL
hl, #unk_0_608A
(hl), #7
inc
                                                                ld
ret
                                                                                 (hl), #3
                                 ; End of function sub_0_1708
                                                                                                                                                                 ; DATA XREF: 0000:1629 o
                                loc_0_1732:
                                                                                                                                                                 ; 0000:163B1o
                                                                                animate_kong_climbing
a, (soft_sprite_ram+0x13)
#0x2C; ','
                                                                call
ld
                                                                cp
ret
                                                                                 NC
                                                                                (soft_sprite_ram), a
(soft_sprite_ram+4), a
(soft_sprite_ram+0xC), a
a, #0x6B; 'k'
(soft_sprite_ram+0x24), a
                                                                 xor
ld
                                                                                                                                                                 ; sprite #0, y coord
; sprite #1, y coord
; sprite #3, y coord
                                                                ld
ld
ld
ld
                                                                dec
                                                                                a (soft_sprite_ram+0x2C), a hl, #soft_sprite_ram+0x121 (hl) hl, #unk_0_6388
174B 32 2C 69
174E 21 21 6A
                                                                ld
ld
1751 34
1752 21 88 63
                                                                inc
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
(hl)
                                                                                                                                                                  ret
                                                                                                                                                                                                                                                                                                                                                                                                                   ; DATA XREF: 0000:162B\u00e10 o ; 0000:163D\u00e10 o
                                                                                  loc_0_1757:
                                                                                                                                                                                                          animate_kong_climbing
sub_0_176C
hl
                                                                                                                                                                   call
                                                                                                                                                                  call
                                                                                                                                                                   inc
                                                                                                                                                                                                           de
                                                                                                                                                                                                         ce
sub_0_1783
a, #0x40; '@'
(eight_bit_countdown), a
h1, #unk_0_6388
(h1)
                                                                                                                                                                  call
ld
ld
                                                                                                                                                                   1d
                                                                                                                                                                 ret
                                                                                    ; USB BOUTINE COUTINE
                                                                                   sub_0_176C:
                                                                                                                                                                                                                                                                                                                                                                                                                   ; CODE XREF: 0000:175A p
                                                                                                                                                                                                         de, #3
hl, #soft_sprite_ram+0x2F
b, #0xA
                                                                                                                                                                  1d
                                                                                   loc_0_1774:
                                                                                                                                                                                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_176C+14|j
                                                                                                                                                                                                          a
a, (hl)
hl, de
                                                                                                                                                                   ld
                                                                                                                                                                                                          hl, de
#0x19
NC, loc_0_177F
(hl), #0
                                                                                                                                                                    sbc
                                                                                                                                                                   ср
                                                                                                                                                                  jp
ld
                                                                                   loc_0_177F:
                                                                                                                                                                                                                                                                                                                                                                                                                   ; CODE XREF: sub_0_176C+E^j
                                                                                                                                                                                                           loc_0_1774
                                                                                                                                                                  dinz
                                                                                   ret
; End of function sub_0_176C
                                                                                    ; SUBROUTINE SUBROUTINE
                                                                                                                                                                                                                                                                                                                                                                                                                   ; CODE XREF: 0000:175F1p
                                                                                 sub_0_1783:
                                                                                                                                                                                                          b, #0xA
                                                                                                                                                                  ld
                                                                                 loc_0_1785:
                                                                                                                                                                                                                                                                                                                                                                                                                   ; CODE XREF: sub 0 1783+8-j
14
                                                                                                                                                                                                           a, (hl)
                                                                                                                                                                  and
                                                                                                                                                                                                          a
NZ, pop_hl_ret
hl, de
loc_0_1785
                                                                                                                                                                   jp
add
                                                                                   djnz loc_(
ret
; End of function sub_0_1783
                                                                                                                                                                                                                                                                                                                                                                                                                    ; DATA XREF: 0000:162D10
                                                                                   loc_0_178E:
                                                                                                                                                                                                                                                                                                                                                                                                                   ; 0000:163F\dagger\dagg
                                                                                                                                                                                                        0x18
hl, (seq_data)
hl
a, (hl)
#0x7F; ''
NZ, loc_0_179D
hl, #level_seq_2
a, (hl)
                                                                                                                                                                  rst
ld
                                                                                                                                                                   inc
                                                                                                                                                                   ld
1793 7E
1794 FE 7F
1796 C2 9D 17
1799 21 73 3A
179C 7E
179D
179D
179D 2 2A 62
17A0 32 27 62
17A3 11 00 05
17A6 CD 9F 30
17A9 AF
                                                                                                                                                                                                                                                                                                                                                                                                                  ; restart repeating levels?
; no, skip
; repeating levels
; get new level
                                                                                                                                                                   ср
                                                                                                                                                                   jp
ld
                                                                                                                                                                  ld
                                                                                  loc_0_179D:
                                                                                                                                                                                                                                                                                                                                                                                                                   ; CODE XREF: 0000:1796↑j
                                                                                                                                                                                                         (seq_data), hl
(level_type), a
de, #0x500
queue_fg_vector_fn
                                                                                                                                                                  1d
                                                                                                                                                                  ld
ld
                                                                                                                                                                                                                                                                                                                                                                                                                    ; update_bonus_timer (add to score)
                                                                                                                                                                  call
177A9 AF
177A9 AF
177AA 32 88 63
177AD 21 09 60
177B0 36 30
177B2 23
177B5 C9
177B6 00
177B7 CD 1C 01
177B7 CD 1C 01
177B7 CD 1C 01
177B7 23
177B7 23
177B7 25
177B6 00
177B7 21 23
17C0 36 03
17C2 3E 10
17C4 11 20 00
17C4 11 20 00
17C4 11 20 70
17CA CD 14 05
17CA CD 15 08
17CA CD A7 0D
17EB 21 D0 76
17EE CD 26 18
17ES 11 4D 3A
17ES CD A7 0D
17EB 21 D0 76
17EE CD 26 18
17FD 11 59 3A
17F4 CD A7 0D
17F7 21 CB 76
17F7 11 59 3A
17F4 CD A7 0D
1800 21 5C 38
1806 CD 47 0B
1800 CD A7 0B
1800 CD A7
                                                                                                                                                                  xor
ld
ld
                                                                                                                                                                                                          a (unk_0_6388), a hl, #eight_bit_countdown (hl), #0x30; '0'
                                                                                                                                                                   ld
                                                                                                                                                                  inc
ld
                                                                                                                                                                                                           (hl), #8
                                                                                                                                                                                                                                                                                                                                                                                                                    ; sequencer = how high screen
                                                                                                                                                                  ret
                                                                                    unk_0_17B6:
                                                                                                                                                                   .db
                                                                                                                                                                                                                                                                                                                                                                                                                   ; DATA XREF: 0000:1648 o
                                                                                                                                                                                                        stop_sound
hl, #unk_0_608A
(hl), #0xE
hl
(hl), #3
a, #0x10
de, #0x20; ''
hl, #VRAM_start+0x223
display_3_tiles_HL
hl, #VRAM_start+0x183
display_3_tiles_HL
hl, #VRAM_start+0x2DA
clear_14x5_HL
de, #draw_data_rivet_6
                                                                                                                                                                  call
ld
                                                                                                                                                                  ld
inc
                                                                                                                                                                   ld
ld
                                                                                                                                                                                                                                                                                                                                                                                                                   ; <space>
; inc by column
                                                                                                                                                                  ld
ld
call
                                                                                                                                                                  ld
call
ld
call
                                                                                                                                                                                                       ni, #WRAM_start+UX2DA
clear_14x5_HL
de, #draw_data_rivet_endl
draw_level_background
hl, #WRAM_start+Ux2D5
clear_14x5_HL
de, #draw_data_rivet_end2
draw_level_background
hl, #WRAM_start+Ux2D0
clear_14x5_HL
de, #draw_data_rivet_end3
draw_level_background
hl, #WRAM_start+Ux2CB
clear_14x5_HL
de, #draw_data_rivet_end4
draw_level_background
hl, #dk_normal_spr
copy_sprites_2_11_data
hl, #soft_sprite_ram+8
c, #68
0x38
hl, #soft_sprite_ram+5
                                                                                                                                                                  call
ld
call
ld
call
ld
call
ld
                                                                                                                                                                   call
                                                                                                                                                                  ld
call
                                                                                                                                                                  ld
call
ld
call
ld
                                                                                                                                                                  call
ld
ld
                                                                                                                                                                                                                                                                                                                                                                                                                   ; sprite #2, y coord
180C 0E 44
180E FF
180F 21 05 69
1812 36 13
1814 3E 20
1816 32 09 60
1819 3E 80
181B 32 90 63
181E 21 88 63
1821 34
                                                                                                                                                                  rst
ld
ld
ld
                                                                                                                                                                                                                                                                                                                                                                                                                   ; add 68 to y coord for 10 sprites ; sprite #1, yflip & code ; pauline, straight-on
                                                                                                                                                                                                         0x38
hl, #soft_sprite_ram+5
(hl), #0x13
a, #0x20; ''
(eight_bit_countdown), a
a, #0x80; 'C'
(kong_thrash_tmr), a
hl, #unk_0_6388
(hl)
                                                                                                                                                                  ld
ld
ld
ld
                                                                                                                                                                   inc
1822 22 C0 63
1825 C9
                                                                                                                                                                  ld
ret
                                                                                                                                                                                                           (ptr_current_sequence), hl
1826
1826
                                                                                                                          SUBROUTINE
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
; CODE XREF: 0000:1322^{\uparrow}p; 0000:1373^{\uparrow}p ...
                                     clear_14x5_HL:
                                                                                              de, #0xFFDB
c, #0xE
a, #0x10
                                                                           ld
ld
                                                                                                                                                                                           ; <space>
                                     loc_0_182D:
                                                                                                                                                                                           ; CODE XREF: clear_14x5_HL+F|j
                                                                          1d
                                                                                             b, #5
                                      loc_0_182F:
                                                                                                                                                                                            ; CODE XREF: clear_14x5_HL+B|j
                                                                           ld
                                                                                              (hl), a
                                                                                                                                                                                           display space; next row; loop 5 times; next column
                                                                           inc
djnz
add
                                                                                              loc_0_182F
hl, de
                                                                           dec
                                                                           jp
ret
                                                                                              NZ, loc_0_182D
                                                                                                                                                                                           ; loop through 14 columns
                                      ; End of function clear_14x5_HL
                                      loc 0 1839:
                                                                                                                                                                                           ; DATA XREF: 0000:164C1o
                                                                                             hl, #kong_thrash_tmr
(hl)
Z, loc_0_1859
a, (hl)
#7
                                                                           ld
                                                                            inc
                                                                            jp
ld
                                                                            and
                                                                                             #7
NZ
de, #0x39CF
3, (hl)
NZ, loc_0_184E
de, #0x39F7
                                                                           ret
ld
bit
1849 20 03
1848 11 F7 39
184E 184E 8
184E EB 8
184E 21 08 69
1855 0E 44
1857 FF
1858 C9 1859 1859 1859 1859 1859 1859 1859 1862 0E 44
1864 FF 1866 CD 4E 00
185F 21 08 69
186F 21 08 69
186F 21 08 63
1870 21 1F 3A
1873 CD 4E 00
1870 21 1F 3A
1873 CD 4E 00
1876 3E 03
1878 3Z 84 60
                                                                           jr
ld
                                                                                                                                                                                          ; CODE XREF: 0000:1849<sup>†</sup>j
                                      loc 0 184E:
                                                                                             de, hl
copy_sprites_2_11_data
hl, #soft_sprite_ram+8
c, #68
0x38
                                                                           ex
call
ld
ld
                                                                                                                                                                                           ; sprite #2, y coord
                                                                                                                                                                                           ; add 68 to y coord for 10 sprites
                                      loc_0_1859:
                                                                                                                                                                                           ; CODE XREF: 0000:183D<sup>†</sup>j
                                                                                             hl, #dk_normal_spr
copy_sprites_2_11_data
hl, #soft_sprite_ram+8
c, #68
0x38
                                                                            ld
                                                                           call
ld
ld
                                                                                                                                                                                           ; sprite #2, y coord
                                                                                             ux38
a, #0x20; ' '
(eight_bit_countdown), a
h1, #unk_0_6388
(h1)
                                                                                                                                                                                           ; add 68 to y coord for 10 sprites
                                                                            rst
ld
                                                                           ld
ld
                                                                            inc
                                                                           ret
                                                                                                                                                                                           ; DATA XREF: 0000:164E10
                                      loc_0_186F:
                                                                                             0x18
hl, #fk_falling_spr
copy_sprites_2_11_data
a, #3
(digital_snd_tmr_kong_fall), a
hl, #unk_0_6388
(hl)
                                                                           rst
ld
call
ld
                                                                                                                                                                                           ; wait for 8-bit countdown
                                                                                                                                                                                           ; tmr=3
1878 32 84 60
1878 21 88 63
187E 34
187F C9
1880
1880
1880 0
1880 0
1885 0E 01
1885 FF
1886 3A 1B 69
1889 FE D0
188B C0
188C 3E 20
188E 32 19 69
1891 21 24 6A
1894 36 7F
1896 2C
1897 36 39
1899 2C
                                                                            ld
                                                                           ld
inc
                                                                           ret
                                      loc_0_1880:
                                                                                                                                                                                           ; DATA XREF: 0000:1650 o
                                                                                             h1, #soft_sprite_ram+0xB
c, #1
0x38
                                                                           1d
                                                                                                                                                                                           ; sprite #2, x coord
; +1
                                                                           ld
rst
ld
                                                                                                                                                                                            ; add 1 to x coord for 10 sprites
                                                                                              a, (soft_sprite_ram+0x1B) #0xD0 ; 'ð'
                                                                           cp
ret
ld
                                                                                             #UXDU, C

A, #0x20; ' '

(soft_sprite_ram+0x19), a

hl, #soft_sprite_ram+0x124

(hl), #0x7F; ' '
                                                                            1d
                                                                           ld
ld
                                                                           inc
ld
                                                                                              (hl), #0x39; '9'
1899 2C
1890 36 01
1890 2C
189D 36 D8
189F 21 C6 76
189A 2CD 26 18
188A5 11 5F 3A
188A8 CD A7 0D
18AB 11 04 00
18AB 11 03 69
18BH 4 CD 3D 00
18BF 3E 00 3
18BE 3E 03
18BE 3E 03
18C4 34
18C5 C9
18C6
18C6
18C6
18C6
18C6
18C6
                                                                           inc
ld
                                                                                               (hl), #1
                                                                                             1)
(h1), #0xD8; 'Ï'
h1, #VRAM_start+0x2C6
clear_14x5_HL
de, #draw_data_rivet_end5
draw_level_background
de, #4
bc, #0x228
h1, #soft_sprite_ram+3
add_c_sprite_register_xB
a, #0
(byte_0_62AF), a
a, #3
                                                                            inc
                                                                           ld
                                                                           ld
call
ld
call
                                                                           ld
ld
                                                                                                                                                                                          ; sprite #0, x coord
                                                                           ld
                                                                           call
ld
ld
ld
                                                                                                                                                                                           ; tmr=3
                                                                                              a, #3
(digital_snd_tmr_thump), a
h1, #unk_0_6388
(h1)
                                                                           ld
ld
                                                                            inc
                                                                           ret
                                      loc_0_18C6:
                                                                                                                                                                                           ; DATA XREF: 0000:1652<sup>†</sup>o
                                                                                             hl, #byte_0_62AF
(hl)
Z, loc_0_193D
a, (hl)
#7
                                                                            ld
18C9 35
18CA CA 3D 19
18CD 7E
18CE E6 07
                                                                           dec
jp
ld
                                                                           and
                                                                                             #7
NZ
hl, #soft_sprite_ram+0x125
a, (hl)
#0x80; 'C'
(hl), a
hl, #soft_sprite_ram+0x19
b, (hl)
5, b
18CE E6 07
18D0 C0
18D1 21 25 6A
18D4 7E
18D5 EE 80
18D7 77
18D8 21 19 69
                                                                           ret
ld
                                                                           1d
                                                                           ld
18DB 46
                                                                           1d
18DB 46

18DC CB A8

18DE AF

18DF CD 09 30

18E2 F6 20

18E4 77

18E5 21 AF 62

18E8 7E

18E9 FE E0
                                                                           res
                                                                           xor
call
                                                                                              sub_0_3009
                                                                                             sub__3009
#0x20; ''
(h1), a
h1, #byte_0_62AF
a, (h1)
#0xE0; 'Ó'
NZ, loc_0_1910
a, #0x50; 'P'
(soft sprite ram:
                                                                           or
ld
ld
                                                                            1d
                                                                           cp
jp
ld
18EB C2 10 19
18EE 3E 50
18F0 32 4F 69
18F3 3E 00
                                                                           ld
                                                                                              (soft_sprite_ram+0x4F), a
a, #0
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
                                                                                        (soft_sprite_ram+0x4D), a
a, #0x9F; 'f'
(soft_sprite_ram+0x4C), a
a, (mario_y)
#0x80; 'C'
NC, loc_0_190F
a, #0x80; 'C'
(soft_sprite_ram+0x4D), a
a, #0x5F; '_'
(soft_sprite_ram+0x4C), a
18F5 32 4D 69
18F8 3E 9F
18F8 3E 9F
18F0 3A 03 62
1900 FE 80
1902 D2 OF 19
1905 3E 80
1907 32 4D 69
1907 32 4C 69
1907 7E
1907 7E
1910 FE CO
1913 21 8A 60
1916 36 0C
1913 32 18 86
1916 36 0C
1913 34 29 62
1918 0F
1916 38 02
1918 3A 29 62
1918 0F
1910 38 02
1910 05
1920 05
1920 1920 23
1921 36 03
1923 21 23 6A
1926 36 40
                                                                       ld
                                                                       ld
ld
cp
                                                                       jp
ld
ld
                                                                       ld
                                                                       ld
                                                                                                                                                                                 ; CODE XREF: 0000:1902 j
                                    loc_0_190F:
                                                                                        a, (hl)
                                                                       ld
                                    loc_0_1910:
                                                                                                                                                                                 ; CODE XREF: 0000:18EB1j
                                                                                         #0xC0 ; 'L'
                                                                       ср
                                                                       ret
                                                                                        hl, #unk_0_608A
(hl), #0xC
a, (level)
                                                                       ld
ld
ld
                                                                       rrca
                                                                                        C, loc_0_1920 (hl), #5
                                   loc_0_1920:
                                                                                                                                                                                ; CODE XREF: 0000:191C1 i
                                                                       inc
ld
                                                                                        hl
(hl), #3
                                                                                        hl, #soft_sprite_ram+0x123 (hl), #0x40; '@'
                                                                       ld
ld
1926 36 40
1928 2B
1929 36 09
192B 2B
                                                                                        hl
(hl), #9
                                                                       dec
ld
dec
                                                                                        hl
                                                                       ld
dec
ld
ld
                                                                                         (hl), #0x76; 'v'
                                                                                        hl
(hl), #0x8F; 'Å'
                                                                                        a, (mario_y)
#0x80 ; 'Ç'
                                                                       cp
ret
ld
                                                                                        #UXG5 . ,
NC
a, #0x6F; 'o'
(soft_sprite_ram+0x120), a
                                                                       ld
                                                                                                                                                                                 ; CODE XREF: 0000:18CA1i
                                    loc_0_193D:
                                                                                        hl, (seq_data)
hl
a, (hl)
#0x7F; ' '
NZ, loc_0_194B
hl, #level_seq_2
a, (hl)
                                                                       1d
                                                                       cp
jp
ld
                                                                                                                                                                                 ; restart repeating levels?
1942 FE 7F
1944 C2 4B 19
1947 21 73 3A
194A 7E
194B 8
194B 22 2A 62
1951 21 29 62
1954 34
1955 11 00 05
1958 CD 9F 30
                                                                                                                                                                                 ; no, skip
; start repeating levels
; get new level
                                                                       ld
                                    loc_0_194B:
                                                                                                                                                                                 ; CODE XREF: 0000:1944<sup>†</sup>j
                                                                                        (seq_data), hl
(level_type), a
hl, #level
(hl)
de, #0x500
                                                                       ld
                                                                       ld
ld
                                                                                                                                                                                 ; next level counter
; update_bonus_timer (add to score)
                                                                       inc
ld
1955 11 00 05
1958 CD 9F 30
1958 AF
195C 32 2E 62
195F 32 88 63
1962 21 09 60
                                                                       call
xor
ld
                                                                                         queue_fg_vector_fn
                                                                                        a (height), a (unk_0_6388), a hl, #eight_bit_countdown (hl), #0xE0; 'Ó' hl
                                                                       ld
                                                                       ld
1965 36 E0
1967 23
1968 36 08
1968 36 08
1968 9
1968 9
1968 1968 1968 1968 1969 1969 1977
1977 CD EE 21
1974 1974 CD BD 1D
1974 1975 CD 8C 1E
1980 CD C3 1A
1983 CD 72 18
1986 CD 8F 2C
1986 CD EB 21
1986 CD 8F 2C
1986 CD C3 C3
1987 CD EC 1E
                                                                       ld
inc
                                                                                         (hl), #8
                                                                       1d
                                                                                                                                                                                 ; set how high screen
                                    ; DATA XREF: 0000:0730 o
                                                                                                                                                                                 ; 0/1
                                                                                                                                                                                 ; 18/19
                                                                       1d
                                                                                         (main_sequencer), a
                                    attract_mode_gameplay:
call
                                                                                                                                                                                ; DATA XREF: 0000:074E10
                                                                                        next_attract_action
                                                                                                                                                                                 ; DATA XREF: 0000:071A o
                                    gameplay:
                                                                                        check_and_handle_bonus
sub_0_1E8C
sub_0_1AC3
sub_0_1F72
sub_0_2C8F
sub_0_2C03
sub_0_30ED
sub_0_2E04
sub_0_2PE04
sub_0_2DDB
sub_0_2DDB
sub_0_2EDD4
sub_0_2E07
                                                                       call
call
                                                                                                                                                                                 ; another jump table
                                                                       call
                                                                       call
                                                                                                                                                                                 ; process fireballs?
; process springs
                                                                       call
call
198F CD 04 2E
1992 CD EA 24
1995 CD DB 2D
1998 CD D4 2E
1998 CD 07 22
199E CD 33 1A
19A1 CD 85 2A
19A4 CD 46 1F
                                                                       call
call
                                                                                        sub_0_2ED4
sub_0_2207
sub_0_1A33
sub_0_2A85
sub_0_1F46
sub_0_26FA
sub_0_25F2
sub_0_19DA
                                                                       call
call
                                                                       call
19A4 CD 46 1F
19A7 CD FA 26
19AA CD F2 25
19AD CD DA 19
19B0 CD FB 03
19B3 CD 08 28
19B6 CD 1D 28
19B9 CD 57 1E
19BC CD 07 1A
19BF CD CB 2F
19C2 00
19C3 00
19C4 00
19C5 A 00 62
                                                                       call
call
                                                                       call
                                                                                         animate_kong_and_pauline
                                                                       call
call
                                                                                        sub_0_2808
sub_0_281D
sub_0_1E57
sub_0_1A07
                                                                       call
                                                                       call
nop
                                                                                         sub_0_2FCB
                                                                       nop
                                                                       nop
ld
and
19C4 00
19C5 3A 00 62
19C8 A7
19C9 C0
                                                                                         a, (mario_alive_flag)
                                                                                                                                                                                 ; mario alive?
                                                                                         NZ
                                                                       ret
                                                                                                                                                                                 ; yes, return
19C9 C0
19CA CD 1C 01
19CD 21 82 60
19D0 36 03
19D2
19D2
19D2 21 0A 60
19D5 34
                                                                       call
ld
                                                                                        stop_sound
hl, #digital_snd_tmr_thump
(hl), #3
                                                                                                                                                                                 ; tmr=3
                                                                       ld
                                    loc_0_19D2:
                                                                                                                                                                                 ; CODE XREF: 0000:1A30-j
                                                                                        hl, #main_sequencer (hl)
                                                                       ld
inc
                                                                                                                                                                                 ; next sequence ; 8-bit countdown
19D6 2B
                                                                       dec
                                                                                         hl
19D7 36 40
19D9 C9
19DA
19DA
                                                                       ld
                                                                                         (hl), #64
                                                                                                                                                                                 ; set counter
                                    ; SUBROUTINE SUBROUTINE
19DA
19DA
19DA
19DA 3A 03 62
                                   sub_0_19DA:
                                                                                                                                                                                 ; CODE XREF: 0000:19ADfp
                                                                      14
                                                                                        a, (mario_y)
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
19DD 06 03
19DF 21 0C 6A
19E2
19E2
19E2 BE
19E3 CA ED 19
19E6 2C
19E7 2C
19E8 2C
19E9 2C
19E8 10 F6
19EC C9
                                                              b, #3
hl, #soft_sprite_ram+0x10C
                                                  ld
                         loc_0_19E2:
                                                                                                                            ; CODE XREF: sub_0_19DA+10|j
                                                  jp
inc
inc
inc
                                                              Z, loc_0_19ED
                                                  inc
                                                  djnz
ret
                                                              loc_0_19E2
19ED
19ED
19ED
19ED
19ED
19ED
20
19F1
2C
19F1
2C
19F2
2C
19F3
BE
19F4
C0
19F5
2D
19F6
19F6
CD
19F7
CB
5E
19F9
CO
19F3
D
19F7
CB
19F9
CO
19F3
D
                         loc_0_19ED:
                                                                                                                            ; CODE XREF: sub_0_19DA+9<sup>†</sup>j
                                                  ld
                                                              a, (mario_x)
                                                  inc
                                                              (hl)
                                                  cp
ret
                                                  dec
dec
bit
                                                              3, (hl)
NZ
                                                  ret
19FA 2D
19FB 22 43 63
19FE AF
19FF 32 42 63
                                                  dec
ld
                                                              (unk_0_6343), hl
                                                  xor
ld
                                                              a
(unk_0_6342), a
19FF 32 42 63
1A02 3C
1A03 32 40 63
1A06 C9
                                                  inc
ld
ret
                                                              a (show_bonus_state), a
; End of function sub_0_19DA
                         ; SUBROUTINE
                         sub_0_1A07:
                                                                                                                            ; CODE XREF: 0000:19BC↑p
                                                  ld
                                                              a, (unk_0_6386)
0x28
                                                                                                                            ; go!
                                                  .dw locret_0_1A1E
.dw loc_0_1A15
.dw loc_0_1A1F
.dw loc_0_1A2A
                                                                                                                            ; Jump table
                         loc_0_1A15:
                                                                                                                            ; DATA XREF: sub_0_1A07+6<sup>†</sup>o
                                                              a
(unk_0_6387), a
a, #2
(unk_0_6386), a
                                                  ld
                         locret_0_1A1E:
                                                                                                                            ; DATA XREF: sub_0_1A07+4\u00e10
                         ; End of function sub_0_1A07
                         loc 0 1A1F:
                                                                                                                            ; DATA XREF: sub 0 1A07+8 o
                                                              h1, #0x6387
(h1)
NZ
a, #3
                                                  1d
ld
                                                  14
                                                              (unk_0_6386), a
                         loc_0_1A2A:
                                                                                                                            ; DATA XREF: sub_0_1A07+A10
                                                              a, (mario_jumping)
                                                  and
ret
pop
                                                              NZ.
                                                              loc_0_19D2
                                                  jр
                         ; BUBROUTINE
                                                                                                                            ; CODE XREF: 0000:199E p
                         sub_0_1A33:
                                                              a, #8
0x30
a, (mario_y)
#0x4B; 'K'
Z, loc_0_1A4B
#0xB3; '|'
Z, loc_0_1A4B
a, (unk_0_6291)
                                                 ld
rst
ld
                                                                                                                            ; return if level bit not set
                                                  cp
jp
                                                  jp
ld
1A46 3D
1A47 CA 51 1A
1A4A C9
                                                  dec
jp
ret
                                                              Z, loc_0_1A51
1A4B
1A4B
1A4B
1A4B 3E 01
                                                                                                                            ; CODE XREF: sub_0_1A33+8<sup>†</sup> j
; sub_0_1A33+D<sup>†</sup> j
                         loc_0_1A4B:
1A4B 3E 01

1A4B

1A4D 32 91 62

1A50 C9

1A51

1A51

1A51

1A51 32 91 62

1A54 47
                                                              a, #1
(unk_0_6291), a
                                                  ret
                         loc_0_1A51:
                                                                                                                             ; CODE XREF: sub_0_1A33+14<sup>†</sup> j
                                                  ld
                                                               (unk_0_6291), a
                                                  ld
                                                              b, a
a, (mario_x)
1A55 3A 05 62
1A58 3D
1A59 FE D0
1A5B D0
                                                              #0xD0 ; 'ð'
                                                  cp
ret
rlca
1A5B D0
1A5C 07
1A5D D2 62 1A
1A60 CB D0
1A62
1A62 07
                                                              NC, loc_0_1A62
2, b
                                                  jp
set
                         loc_0_1A62:
                                                                                                                            ; CODE XREF: sub_0_1A33+2A1j
                                                  rlca
1A63 07
1A64 D2 69 1A
1A67 CB C8
1A69
1A69 E6 07
1A6B FE 06
1A70 CB C8
1A72
1A72 3A 03 62
1A75 07
1A63 07
                                                  rlca
                                                  jp
set
                                                              NC, loc_0_1A69
1, b
                         loc_0_1A69:
                                                                                                                            ; CODE XREF: sub_0_1A33+31 j
                                                  and
                                                              #6
NZ, loc_0_1A72
1, b
                         loc_0_1A72:
                                                                                                                            ; CODE XREF: sub_0_1A33+3A j
                                                              a, (mario_y)
                                                  rlca
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
1A76 D2 7B 1A

1A79 CB CO

1A7B

1A7B

1A7B 21 92 62

1A7E 78

1A7F 85

1A80 6F

1A81 7E

1A82 A7
                                                                          NC, loc_0_1A7B
                                                            set
                              loc_0_1A7B:
                                                                                                                                                    ; CODE XREF: sub_0_1A33+43 j
                                                                          hl, #unk_0_6292
                                                                          a, b
a, l
l, a
a, (hl)
                                                            1d
                                                            add
                                                            ld
ld
                                                            and
ret
ld
ld
1A82 A7
1A82 A7
1A83 C8
1A84 36 00
1A86 21 90 62
1A89 35
1A8A 78
1A8B 01 05 00
1A8E 1F
                                                                          Z
(h1), #0
h1, #unk_0_6290
(h1)
a, b
bc, #5
                                                            dec
ld
ld
                                                            rra
1A8E 1F
1A8F DA BD 1A
1A92 21 CB 02
1A95
1A95
1A95 A7
1A96 CA 9E 1A
1A99
1A99
                                                                          C, loc_0_1ABD
hl, #0x2CB
                              loc_0_1A95:
                                                                                                                                                    ; CODE XREF: sub 0 1A33+8D-i
                                                                           Z, loc_0_1A9E
                                                            jр
                              loc_0_1A99:
                                                                                                                                                    ; CODE XREF: sub_0_1A33+68 j
1A99 09
1A9A 3D
1A9B C2 99 1A
1A9E
                                                            add
dec
                                                                          hl, bc
                                                                          NZ, loc_0_1A99
                                                           jp
1A9E
1A9E
1A9E 01 00 74
1AA1 09
                              loc_0_1A9E:
                                                                                                                                                    ; CODE XREF: sub_0_1A33+63<sup>†</sup> j
                                                                          bc, #VRAM_start
hl, bc
                                                            add
                                                                          a, #0x10
(hl), a
1AA2 3E 10
1AA4 77
1AA5 2D
1AA6 77
                                                           ld
ld
dec
ld
                                                                          (hl), a
1AA7 2C
1AA7 2C
1AA8 2C
1AA9 77
1AAA 3E 01
1AAC 32 40 63
1AAF 32 42 63
1AB2 32 25 62
1AB5 3A 16 62
                                                                          1
(hl), a
a, #1
(show_bonus_state), a
(unk_0_6342), a
(unk_0_6225), a
                                                            ld
                                                            ld
                                                            ld
ld
                                                            ld
ld
                                                                           a, (mario_jumping)
1AB8 A7
1AB9 CC 95 1D
1ABC C9
1ABD
                                                            and call
                                                                          Z, sub_0_1D95
                                                            ret
1ABD
1ABD
1ABD
1ABD 21 2B 01
1ACO C3 95 1A
1ACO
1ACO
                              loc_0_1ABD:
                                                                                                                                                    ; CODE XREF: sub_0_1A33+5Cfj
                                                           1d
                                                                          hl, #0x12B
                              jp loc_0_1A95; End of function sub_0_1A33
1AC3
1AC3
1AC3
1AC3
                                      SUBROUTINE ...
1AC3
1AC3 3A 16 62
1AC6 3D
                              sub_0_1AC3:
                                                                                                                                                    ; CODE XREF: 0000:1980 p
                                                                          a, (mario_jumping)
a
1AC6 3D
1AC7 CA B2 1B
1ACA 3A 1E 62
1ACD A7
1ACE C2 55 1B
1AD1 3A 17 62
1AD4 3D
                                                                          Z, loc_0_1BB2
                                                            jp
ld
                                                                          a, (unk_0_621E)
                                                            and
                                                            jp
ld
                                                                          a, (unk_0_6217)
a
Z, loc_0_1AE6
a, (mario_climbing)
1AD4 3D
1AD5 CA E6 1A
1AD8 3A 15 62
1ADB 3D
                                                            jp
ld
                                                            dec
1ADB 3D
1ADC CA 38 1B
1ADF 3A 10 60
1AE2 17
1AE3 DA 6E 1B
1AE6
1AE6
1AE6 CD 1F 24
                                                                          Z, loc_0_1B38
a, (controller_in)
                                                                                                                                                    ; jump pressed?
; yes, skip
                                                            rla
                                                            jp
                                                                          C, loc_0_1B6E
                              loc_0_1AE6:
                                                                                                                                                    ; CODE XREF: sub_0_1AC3+12 j
                                                            call
                                                                           sub 0 241F
                                                                          a, (controller_in)
e
Z, loc_0_1AF5
0, a
1AE9 3A 10 60
1AEC 1D
1AED CA F5 1A
1AF0 CB 47
                                                            ld
                                                            jp
bit
                                                                                                                                                    ; right?
1AF2 C2 8F 1C
1AF5
1AF5
1AF5 15
                                                                           NZ, mario_right
                                                                                                                                                    ; yes, skip
                                                                                                                                                    ; CODE XREF: sub_0_1AC3+2A1j
                              loc 0 1AF5:
                                                            dec
1AF6 CA FE 1A
1AF9 CB 4F
1AFB C2 AB 1C
1AFE
                                                                           Z, loc_0_1AFE
1, a
                                                                                                                                                     ; left?
                                                                          NZ, mario_left
                                                                                                                                                    ; yes, skip
                                                            jp
1AFE
1AFE 3A 17 62
1B01 3D
                              loc_0_1AFE:
                                                                                                                                                    ; CODE XREF: sub_0_1AC3+33 j
                                                                          a, (unk_0_6217)
                                                            dec
1B02 C8
1B03 3A 05 62
1B06 C6 08
1B08 57
                                                           ret
ld
add
ld
                                                                          a, (mario_x)
a, #8
d, a
1808 57
1809 3A 03 62
180C F6 03
180C CB 97
1810 01 15 00
1813 CD 6E 23
1816 F5
181A 7E
181B E6 80
181D F6 06
181F 77
1820 21 1A 62
                                                           ld
or
res
ld
                                                                           a, (mario_y)
#3
2, a
                                                                         2, a
bc, #0x15
sub_0_236E
af
hl, #mario_flipy_tile
a, (hl)
#0x80; 'Ç'
#6
(hl), a
bl #unk 0.621a
                                                            call
push
ld
                                                            ld
                                                                                                                                                    ; mario climbing character
                                                            ld
                                                                          hl, #unk_0_621A
a, #4
                                                            ld
1B20 21 1A 62

1B23 3E 04

1B25 B9

1B26 36 01

1B28 D2 2C 1B

1B2B 35

1B2C
                                                            ld
                                                            cp
ld
                                                                           c
(hl), #1
                                                                                                                                                    ; set as broken ladder
                                                                          NC, loc_0_1B2C (hl)
                                                                                                                                                    ; set as normal ladder
1B2C

1B2C F1

1B2D F1

1B2D A7

1B2E CA 4E 1B

1B31 7E

1B32 A7

1B33 C0

1B34 2C

1B35 72

1B36 2C
                                                                                                                                                    ; CODE XREF: sub 0 1AC3+65 j
                              loc 0 1B2C:
                                                            pop
and
                                                                          af
                                                                           a
Z, loc_0_1B4E
                                                            jp
ld
                                                                          a, (hl)
a
NZ
                                                            and
ret
                                                            inc
ld
                                                                           (hl), d
1B35 72
1B36 2C
1B37 70
1B38
1B38
                                                                                                                                                     ; set top coordinate of ladder ; set bottom Y coordinate of ladder
                                                                           (hl), b
                             loc_0_1B38:
                                                                                                                                                    ; CODE XREF: sub_0_1AC3+19 j
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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
1838 3A 10 60
183B CB 5F
183D C2 F2 1C
1840 3A 15 62
1843 A7
1844 C8
1845
1845
1845 3A 10 60
1848 CB 57
1840 C9
184E
                                                                                      a, (controller_in)
                                                                                     3, a
NZ, loc_0_1CF2
a, (mario_climbing)
a
                                                                    bit
                                                                                                                                                                           ; down?
                                                                    jp
ld
and
                                                                    ret
                                  loc_0_1B45:
                                                                                                                                                                          ; CODE XREF: sub_0_1AC3+8F|j
                                                                                      a, (controller_in)
                                                                                     2, a
NZ, loc_0_1D03
                                                                                                                                                                          ; up?
; yes, go
                                                                    bit
                                                                    jp
ret
1B4E
1B4E
1B4E 2C
1B4F 70
                                   loc_0_1B4E:
                                                                                                                                                                          ; CODE XREF: sub_0_1AC3+6B<sup>†</sup> j
1B4F 70
1B50 2C
1B51 72
1B52 C3 45 1B
1B55 1B55
1B55 21 1E 62
1B58 35
1B59 C0
1B5A 3A 18 62
1B5D 32 17 62
1B60 37 E
                                                                                      (hl), b
                                                                     ld
                                                                                                                                                                          ; set top Y corordinate of ladder ; set bottom coordinate of ladder
                                                                                      (hl), d
loc_0_1B45
                                                                     jр
                                   loc_0_1B55:
                                                                                                                                                                           ; CODE XREF: sub_0_1AC3+B<sup>†</sup>j
                                                                                     hl, #unk_0_621E (hl)
                                                                    1d
                                                                    dec
                                                                                     (h1)
NZ
a, (unk_0_6218)
(unk_0_6217), a
hl, #mario_flipy_tile
a, (h1)
#0x80; 'Ç'
(h1), a
                                                                    ret
ld
                                                                    ld
ld
ld
1B60 21 07
1B63 7E
1B64 E6 80
1B66 77
                                                                    and
ld
                                                                                                                                                                          ; h-flip mario
1B67 AF
1B68 32 02 62
1B6B C3 A6 1D
1B6E
                                                                    xor
ld
                                                                                     (unk_0_6202), a update_mario_sprite_registers
                                                                     jр
1B6E

1B6E

1B6E 3E 01

1B70 32 16 62

1B73 21 10 62

1B76 3A 10 60

1B79 01 80 00

1B7C 1F
                                   loc_0_1B6E:
                                                                                                                                                                           ; CODE XREF: sub_0_1AC3+20 i
                                                                                      a, #1
                                                                     ld
                                                                                                                                                                          ; start_jump
; set mario jumping
                                                                                     a, #1 (mario_jumping), a h1, #unk_0_6210 a, (controller_in) bc, #0x80; 'Ç'
                                                                     ld
                                                                    ld
ld
ld
                                                                                                                                                                          ; right?
; yes, skip
                                                                     rra
1B7D DA 8A 1B
1B80 01 80 FF
                                                                                     C, loc_0_1B8A
bc, #0xFF80
                                                                     jp
ld
1B83 1F
1B84 DA 8A 1B
1B87 01 00 00
1B8A
                                                                    rra
                                                                                                                                                                          ; left?
; yes, skip
                                                                                     C, loc_0_1B8A
bc, #0
                                                                                                                                                                          ; CODE XREF: sub_0_1AC3+BA<sup>†</sup>j; sub_0_1AC3+C1<sup>†</sup>j
1B8A
1B8A AF
1B8A
1B8B 70
                                  loc_0_1B8A:
                                                                                      a
(hl), b
                                                                    ld
1B8C 2C
1B8D 71
1B8E 2C
1B8F 36 01
                                                                    inc
ld
                                                                                      (hl), c
                                                                    inc
ld
                                                                                      (hl), #1
1BBF 36 01
1B91 2C
1B92 36 48
1B94 2C
1B95 77
1B96 32 04 62
1B99 32 06 62
1B9F E6 80
1BA1 F6 0E
1BA3 32 07 62
1BA3 32 07 62
1BA3 32 07 62
1BA3 32 07 62
1BA4 31 05 62
1BA9 31 05 62
1BA9 31 05 62
1BA9 31 05 62
1BA9 31 05 62
                                                                                      (hl), #0x48; 'H'
                                                                                     1
(hl), a
(unk_0_6204), a
(unk_0_6206), a
a, (mario_flipy_tile)
#0x80; 'C'
                                                                    ld
                                                                    ld
                                                                    ld
ld
                                                                    and
                                                                                      #0xE
                                                                                                                                                                          ; mario jumping character
                                                                                      (mario_flipy_tile), a
                                                                                     a, (mario_x)
(unk_0_620E), a
hl, #digital_snd_tmr_jump
(hl), #3
                                                                     ld
                                                                     ld
                                                                                                                                                                          ; tmr=3
                                                                    ret
1BB2
1BB2
1BB2 loc_0_1BB2:
1BB2 DD 21 00 62
                                                                                                                                                                          ; CODE XREF: sub_0_1AC3+4<sup>†</sup>j
                                                                                     ix, #mario_alive_flag
a, (mario_y)
0xB(ix), a
a, (mario_x)
0xC(ix), a
0xC(ix), a
                                                                     ld
18B2 DD 21 00
18B6 3A 03 62
18B9 DD 77 0B
18BC 3A 05 62
18BF DD 77 0C
18C2 CD 9C 23
18C5 CD 1F 24
18C8 15
18C9 C2 F2 1B
                                                                    ld
ld
ld
ld
                                                                                                                                                                          ; store X position before a jump
                                                                                                                                                                          ; store Y position before a jump
                                                                    call
call
                                                                                      sub_0_239C
sub_0_241F
                                                                                     d
NZ, loc_0_1BF2
0x10(ix), #0
0x11(ix), #0x80; 'Ç'
7, 7(ix)
                                                                    dec
                                                                    jp
ld
ld
1BCC DD 36 10 00
1BD0 DD 36 11 80
1BD4 DD CB 07 FE
1BD8
                                                                                                                                                                          ; h-flip sprite
                                                                    set
1BD8
1BD8 3A 20 62
1BDB 3D
                                  loc_0_1BD8:
                                                                                                                                                                          ; CODE XREF: sub_0_1AC3+13F|j
                                                                                      a, (unk_0_6220)
                                                                    dec
                                                                                     a
Z, loc_0_1BEC
sub_0_2407
0x12(ix), h
0x13(ix), 1
0x14(ix), #0
1BDB 3D
1BDC CA EC 1B
1BDF CD 07 24
1BE2 DD 74 12
1BE5 DD 75 13
                                                                    jp
call
ld
ld
18E5 DD 75 13
1BE8 DD 36 14 00
1BEC
1BEC
1BEC CD 9C 23
1BEF C3 05 1C
1BF2
1BF2
1BF2
                                                                    1d
                                  loc_0_1BEC:
                                                                                                                                                                          ; CODE XREF: sub_0_1AC3+119<sup>†</sup>j
                                                                    call
                                                                                     sub_0_239C
loc_0_1C05
; CODE XREF: sub_0_1AC3+106 j
                                   loc_0_1BF2:
                                                                                     e
NZ, loc_0_1C05
0x10(ix), #0xFF
0x11(ix), #0x80; 'C'
7, 7(ix)
loc_0_1BD8
                                                                     jp
ld
                                                                    ld
                                                                    res
                                                                                                                                                                          ; un-hflip sprite
                                  loc_0_1C05:
                                                                                                                                                                          ; CODE XREF: sub_0_1AC3+12C<sup>†</sup>j; sub_0_1AC3+130<sup>†</sup>j
                                                                     call
                                                                                      sub_0_2B1C
                                                                    dec
                                                                                                                                                                          ; are we jumping?
                                                                                     a
Z, loc_0_1C3A
a, (unk_0_621F)
                                                                     jp
ld
                                                                    dec
                                                                                     a Z, loc_0_1C76 a, (unk_0_6214) #0x14 NZ, loc_0_1C33 a, #1 (unk_0_621F), a
1C0F 3D

1C10 CA 76 1C

1C13 3A 14 62

1C16 D6 14

1C18 C2 33 1C

1C1B 3E 01

1C1D 32 1F 62
                                                                    sub
                                                                    jp
ld
ld
                                                                                                                                                                          ; peak of the jump
                                                                                                                                                                          ; check for bonus points?
; any bonus points?
1C20 CD 53 28
1C23 A7
                                                                    call
and
                                                                                      sub_0_2853
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
Z, update_mario_sprite_registers
(unk_0_6342), a
                                                                                                                                                         ; no, exit
                                                                             (unk_0_6342), a
a, #1
(show_bonus_state), a
(unk_0_6225), a
                                                             ld
ld
ld
                                                                                                                                                         ; register bonus
                                                             nop
                               loc_0_1C33:
                                                                                                                                                         ; CODE XREF: sub_0_1AC3+155↑j
                                                              inc
                                                              call
                                                                            Z, sub_0_2954
update_mario_sprite_registers
                               loc_0_1C3A:
                                                                                                                                                         ; CODE XREF: sub_0_1AC3+146 j
                                                             dec
                                                                             Z, loc_0_1C4F
                                                              jp
inc
                                                             ld
xor
ld
                                                                             (unk_0_621F), a
                                                                             hl, #0x6210
                                                             ld
1C48
1C48
1C48
1C48 77
1C49 2C
                               loc_0_1C48:
                                                                                                                                                         ; CODE XREF: sub_0_1AC3+187|j
                                                             ld
                                                                             (hl), a
                                                              inc
1C49 2C

1C4A 10 FC

1C4C C3 A6 1D

1C4F

1C4F

1C4F

1C4F 32 16 62

1C52 3A 20 62
                                                                            loc_0_1C48
update_mario_sprite_registers
                                                              qį
                               loc_0_1C4F:
                                                                                                                                                         ; CODE XREF: sub_0_1AC3+178<sup>†</sup> j
                                                                            (mario_jumping), a a, (unk_0_6220) #1
                                                             ld
ld
1C55 EE 01
1C57 32 00 62
1C5A 21 07 62
1C5D 7E
                                                             xor
ld
ld
ld
                                                                            #1
(mario_alive_flag), a
h1, #mario_flipy_tile
a, (h1)
#0x80; 'Ç'
                                                                                                                                                         ; set whether mario survives a jump
1C5D 7E

1C5E E6 80

1C60 F6 0F

1C62 77

1C63 3E 04

1C65 32 1E 62

1C68 AF

1C69 32 1F 62

1C6C 3A 25 62
                                                             and
or
ld
                                                                            #0x80 ; 'C'
#0xF
(h1), a
a, #4
(unk_0_621E), a
                                                                                                                                                         ; mario landing character
                                                             ld
                                                             ld
xor
ld
                                                                             a
(unk_0_621F), a
a, (unk_0_6225)
106C 3A 25 62

106F 3D

1070 CC 95 1D

1073 C3 A6 1D

1076 1076

1076 3A 05 62

1076 3A 05 62

1079 21 0E 62

1070 D6 0F

107E BE

107F DA A6 1D

1082 3E 01

1082 3E 01

1084 32 20 62

1084 32 184 60

108A 36 03
                                                             ld
                                                             dec
call
                                                                             a
Z, sub_0_1D95
                                                              jр
                                                                            update_mario_sprite_registers
                               loc_0_1C76:
                                                                                                                                                         ; CODE XREF: sub_0_1AC3+14D^j
                                                                            a, (mario_x)
hl, #unk_0_620E
#0xF
(hl)
                                                             1d
                                                              ld
                                                              sub
                                                             ср
                                                             jp
ld
ld
ld
                                                                            C, update_mario_sprite_registers
a, #1
(unk_0_6220), a
                                                                            (hl), #3
update_mario_sprite_registers
1087 21 84 60
108A 36 03
108C 3 A6 1D
108F
108F
108F 06 01
1091 3A 0F 62
1094 A7
1095 C2 D2 1C
1098 3A 02 62
1098 47
1090 3E 05
109E CD 09 30
10A1 32 02 62
10A4 E6 03
10A6 F6 80
                                                             ld
                               mario_right:
                                                                                                                                                         ; CODE XREF: sub_0_1AC3+2Ffj
                                                             ld
ld
                                                                            b, #1
a, (unk_0_620F)
                                                             and
                                                                            a
NZ, loc_0_1CD2
a, (unk_0_6202)
b, a
a, #5
sub_0_3009
(unk_0_6202), a
                                                             jp
ld
ld
                                                             1d
                                                             call
ld
and
1CA6 F6 80
1CA8 C3 C2 1C
1CAB
1CAB
                                                                             #0×80 ; 'C
                                                                             update_mario_sprite_data
1CAB

1CAB 06 FF

1CAD 3A 0F 62

1CBO A7

1CB1 C2 D2 1C

1CB4 3A 02 62

1CB7 47

1CB8 3E 01
                               mario_left:
                                                                                                                                                         ; CODE XREF: sub_0_1AC3+38 j
                                                             ld
ld
                                                                            b, #0xFF
a, (unk_0_620F)
                                                             and
                                                             jp
ld
ld
                                                                            NZ, loc_0_1CD2
a, (unk_0_6202)
b, a
a, #1
                                                             ld
                                                                            a, #1
sub_0_3009
(unk_0_6202), a
1CBA CD 09 30
1CBD 32 02 62
1CC0 E6 03
1CC2
                                                             call
ld
                                                             and
                                                                                                                                                         ; animate mario running
1CC2
1CC2 21 07 62
1CC5 77
                               update_mario_sprite_data:
                                                                                                                                                         ; CODE XREF: sub_0_1AC3+1E5 j
                                                           ld
ld
                                                                            hl, #mario_flipy_tile (hl), a
                                                                                                                                                         ; set mario character
1CC6 1F
1CC7 DC 8F 1D
1CCA 3E 02
1CCC 32 0F 62
                                                             rra
call
ld
ld
                                                                            C, sub_0_1D8F
a, #2
(unk_0_620F), a
1CCC 32 OF 62
1CCF C3 A6 1D
1CD2
1CD2
1CD2 21 03 62
1CD2 21 07 62
1CD5 7E
1CD6 80
                                                                             update_mario_sprite_registers
                                                                                                                                                         ; CODE XREF: sub_0_1AC3+1D2<sup>†</sup>j; sub_0_1AC3+1EE<sup>†</sup>j
                               loc 0 1CD2:
                                                                            hl, #mario_y
a, (hl)
a, b
(hl), a
a, (level_type)
                                                             ld
ld
                                                             add
1CD7 77
1CD8 3A 27 62
                                                             ld
ld
1CDB 3D
1CDC C2 EB 1C
                                                             dec
                                                                            a
NZ, loc_0_1CEB
h, (hl)
a, (mario_x)
l, a
                                                             jp
ld
ld
1CDF 66
1CEO 3A 05 62
1CE3 6F
10E3 6F 10E4 CD 33 23 10E7 7D 10E8 32 05 62 10EB 10EB 21 0F 62 10EE 35 10EF 23 A6 1D 10F2 10F2 3A 0F 62 10F2 3A 0F 62 10F5 A7
                                                             ld
                                                             call
ld
                                                                             sub_0_2333
                                                                             a, l (mario_x), a
                                                             ld
                              loc_0_1CEB:
                                                                                                                                                         ; CODE XREF: sub_0_1AC3+219<sup>†</sup> j
                                                                            hl, #unk_0_620F
(hl)
                                                             ld
dec
                                                              jр
                                                                             update_mario_sprite_registers
                              loc 0 1CF2:
                                                                                                                                                         ; CODE XREF: sub 0 1AC3+7A1 j
                                                             ld
                                                                             a, (unk_0_620F)
                                                                                                                                                         ; check timer
                                                                                                                                                         ; expired?
; no, skip
1CF5 A7
1CF6 C2 8A 1D
                                                             and
                                                                             NZ, loc_0_1D8A
                                                              jp
ld
1CF9 3E 03
1CFB 32 0F 62
                                                                             a, #3
(unk_0_620F), a
                                                             14
                                                                                                                                                        ; reset timer
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
10FE 3E 02

1000 C3 11 1D

1003

1003

1003

1003

1003

1006 A7

1006 A7

1007 C2 76 1D

100A 3E 04

100C 32 0F 62

100F 3E FE

1011

1011 1011 21 05 62
                                                                                                                           loc_0_1D11
                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_1AC3+87↑j
                                                 loc_0_1D03:
                                                                                                                                                                                                                                                    ; check timer
; expired?
; no, skip
                                                                                                                           a, (unk_0_620F)
                                                                                                  1d
                                                                                                   and
                                                                                                                         a
NZ, loc_0_1D76
a, #4
(unk_0_620F), a
a, #0xFE; '■'
                                                                                                  jp
ld
                                                                                                                                                                                                                                                   ; reset timer
                                                                                                  ld
                                                                                                  ld
                                                 loc_0_1D11:
                                                                                                                                                                                                                                                   ; CODE XREF: sub_0_1AC3+23Dfj
1011

1011 21 05 62

1014 86

1015 77

1016 47

1017 3A 22 62

101A EE 01

101C 32 22 62

101F C2 51 10

1022 78

1023 C6 08

1025 21 1C 62

1028 BE

1029 CA 67 1D
                                                                                                                         hl, #mario_x
a, (hl)
(hl), a
                                                                                                  ld
ld
                                                                                                                         b, a
a, (unk_0_6222)
#1
                                                                                                 ld
xor
ld
                                                                                                                         #1
(unk_0_6222), a
NZ, loc_0_1D51
a, b
a, #8
h1, #unk_0_621C
(h1)
                                                                                                  jp
ld
add
ld
1025 21 1C 62
1028 EE
1029 CA 67 1D
102C 2D
102D 96
102E CA 67 1D
1031 06 05
1033 D6 08
1035 CA 3F 1D
1038 05
1039 D6 04
1038 CA 3F 1D
1038 05
1039 D6 04
1038 CA 3F 1D
1038 05
1039 D6 04
1038 CA 3F 1D
1038 05
1039 D6 04
1038 CA 3F 1D
1038 05
1039 D6 04
1038 CA 3F 1D
1038 05
1039 D6 04
1038 CA 3F 1D
1038 05
1037 05
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1038 05
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                                                                                                  cp
jp
dec
                                                                                                                                                                                                                                                   ; bottom y coordinate of ladder
; stop from climbing
                                                                                                                          Z, loc_0_1D67
                                                                                                                                                                                                                                                   ; top y coordinate of ladder
; stop from climbing
                                                                                                                           (hl)
                                                                                                  sub
                                                                                                  jp
ld
sub
                                                                                                                          Z, loc_0_1D67
b, #5
#8
Z, loc_0_1D3F
                                                                                                  jp
dec
                                                                                                                         b
#4
                                                                                                   sub
                                                                                                                           Z, loc_0_1D3F
                                                                                                   jр
                                                                                                  dec
                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_1AC3+272↑j; sub_0_1AC3+278↑j
                                                 loc_0_1D3F:
                                                                                                                         a, #0x80; 'Ç'
h1, #mario_flipy_tile
(h1)
#0x80; 'Ç'
                                                                                                  ld
                                                                                                  ld
and
                                                                                                                                                                                                                                                    ; hflip mario
                                                                                                  xor
1D47 B0
1D48 77
1D49
1D49
1D49 32 01
1D4B 32 15 62
1D4E C3 A6 1D
1D51
1D51
1D51 2D
1D52 2D
                                                                                                                           (hl), a
                                                 loc 0 1D49:
                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_1AC3+2A1 | j
; flag mario climbing a ladder
                                                                                                                          a, #1
(mario_climbing), a
update_mario_sprite_registers
                                                                                                   jр
                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_1AC3+25C<sup>†</sup>j
                                                  loc_0_1D51:
                                                                                                  dec
1D51 2D

1D52 2D

1D53 7E

1D54 F6 03

1D56 CB 97

1D58 77

1D59 3A 24 62

1D5C EE 01

1D5E 32 24 62

1D61 CC 8F 1D

1D64 C3 49 1D
                                                                                                                          a, (hl)
#3
2, a
                                                                                                   ld
                                                                                                   or
                                                                                                   res
                                                                                                  ld
ld
xor
ld
                                                                                                                          (h1), a
a, (unk_0_6224)
#1
                                                                                                                          (unk_0_6224), a
Z, sub_0_1D8F
loc_0_1D49
                                                                                                   call
1D64 C3 49 1D
1D67
1D67
1067
1D67 3E 06 1D67 3E 06 1D67 3E 07 62 1D6C AF 1D6D 3Z 19 6Z 1D73 C3 A6 1D 1D76 1D76 1D76 3A 1A 6Z
                                                  loc_0_1D67:
                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_1AC3+266 j
                                                                                                                                                                                                                                                    ; sub_0_1AC3+26B\fi
; mario climbing character
                                                                                                                           (mario_flipy_tile), a
                                                                                                  1d
                                                                                                  xor
ld
ld
                                                                                                                           (unk_0_6219), a (mario_climbing), a
                                                                                                                                                                                                                                                   ; flaf not climbing a ladder
                                                                                                   jp
                                                                                                                           update_mario_sprite_registers
                                                 loc 0 1D76:
                                                                                                                                                                                                                                                    ; CODE XREF: sub 0 1AC3+2441 i
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
                                                                                                                           a, (unk_0_621A)
                                                                                                 ld
and
                                                                                                                          a
Z, loc_0_1D8A
(unk_0_6219),
                                                                                                   jp
ld
                                                                                                  ld
sub
ld
                                                                                                                           a, (unk_0_621C)
#0x13
                                                                                                                         hl, #mario_x (hl)
                                                                                                  cp
ret
1D89 D0
1D8A
1D8A
1D8A 21 OF 62
                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_1AC3+233<sup>†</sup> j ; sub_0_1AC3+2B7<sup>†</sup> j
                                                 loc 0 1D8A:
ld
dec
ret
                                                                                                                         hl, #unk_0_620F (hl)
                                                  ; End of function sub_0_1AC3
                                                  ; USB SUBROUTINE
                                                                                                                                                                                                                                                   ; CODE XREF: sub_0_1AC3+204\uparrow p ; sub_0_1AC3+29E\uparrow p ; tmr=3
                                                 sub_0_1D8F:
                                                                                                                           a, #3
(digital_snd_tmr_walk), a
                                                                                                  ld
                                                                                                  ret
                                                  ; End of function sub_0_1D8F
                                                  ; SUBROUTINE
1D95
1D95
1D95
1D95 32 25 62
1D95
1D98 3A 27 62
1D98 3D
                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_1A33+86\uparrow p; sub_0_1AC3+1AD\uparrow p
                                                 sub_0_1D95:
                                                                                                 ld
ld
dec
                                                                                                                         (unk_0_6225), a
a, (level_type)
1D9C C8
1D9D 21 8A 60
1DAO 36 0D
1DA2 2C
                                                                                                  ret
ld
ld
                                                                                                                         hl, #unk_0_608A
(hl), #0xD
                                                                                                   inc
1DA3 36 03
                                                                                                                           (hl), #3
                                                                                                  ld
1DA5 30
1DA5 C9
1DA5
1DA5
1DA6
                                                  ret; End of function sub_0_1D95
1DA6
1DA6
                                                                                                                                                                                                                                                    ; CODE XREF: sub_0_1AC3+A8†j
; sub_0_1AC3+161†j ...
; sprite #19
                                                 update_mario_sprite_registers:
1DA6 21 4C 69
1DA6
                                                                                                                 hl, #soft_sprite_ram+0x4C
                                                                                               1.6
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
                                                                                                            a, (mario_y)
(hl), a
a, (mario_flipy_tile)
1
1DA9 3A 03 62
1DAC 77
1DAD 3A 07 62
1DB0 2C
1DB1 77
                                                                                       ld
                                                                                      ld
inc
ld
                                                                                                            (hl), a
                                                                                                            a, (mario_flipx_colour)
1DB2 3A 08 62
                                                                                      1d
1DB5 2C
1DB6 77
1DB7 3A 05 62
                                                                                                            (hl), a
a, (mario_x)
l
                                                                                      ld
ld
1DBA 2C
1DBB 77
1DBC C9
1DBD
                                                                                       inc
                                                                                      ld
                                                                                                            (hl), a
1DBD
1DBD
1DBD
                                             ; INCLUDED SUBROUTINE INSTRUMENTAL SUBSTITUTION OF THE STRUMENT OF THE STRUMEN
                                                                                                                                                                                                                        ; CODE XREF: 0000:127C1p
                                           check and handle bonus:
1DBD
1DBD 3A 40 63
1DBD
1DC0 EF
1DC0
                                                                                                                                                                                                                        ; 0000:1641†p ...
                                                                                                           a, (show_bonus_state)
0x28
                                                                                                                                                                                                                        ; go!
                                                                                      rst
1DC0
1DC1 49 1E
1DC3 C9 1D
1DC5 4A 1E
1DC7 00
                                                                                       .dw no_bonus
.dw show_bonus
                                                                                       .dw remove bonus
                                                                                                         0 ;
0 ;
                                                                                       .db
1DC8 00
1DC9
                                                                                       .db
1DC9
1009
                                            show_bonus:
                                                                                                                                                                                                                       ; DATA XREF: check_and_handle_bonus+610
                                                                                                           a, #0x40; '@'
(show_bonus_timer), a
a, #2
(show_bonus_state), a
a, (unk_0_6342)
1DC9 3E 40
1DCB 32 41 63
1DCE 3E 02
                                                                                      ld
ld
ld
1DCE 3E 02
1DD0 32 40 63
1DD3 3A 42 63
1DD6 1F
1DD7 DA 70 3E
                                                                                      ld
ld
                                                                                      rra
                                                                                      jp
rra
jp
                                                                                                            C, loc_0_3E70
1DDA 1F
1DDB DA 00 1E
1DDE 1F
                                                                                                            C, award_300_pts
                                                                                       rra
1DDF DA F5 1D
                                                                                      jp
ld
ld
ld
                                                                                                            C. award random bonus
1DE2 21 85 60
1DE5 36 03
1DE7 3A 29 62
1DEA 3D
                                                                                                            t, award_random_bonns
hl, #digital_snd_tmr_barrel_jump_priz
(hl), #3
a, (level)
                                                                                      dec
1DEB CA 00 1E
1DEE 3D
                                                                                      jp
dec
                                                                                                            Z, award_300_pts
1DEE 3D
1DEF CA 08 1E
1DF2 C3 10 1E
                                                                                       jр
                                                                                                            Z, award 500 pts
                                                                                                            award_800_pts
1DF5
1DF5
                                                                                                                                                                                                                       ; CODE XREF: check_and_handle_bonus+22<sup>†</sup> j
1DF5
                                            award_random_bonus:
1DF5 3A 18 60
1DF8 1F
1DF9 DA 08 1E
                                                                                       ld
                                                                                                            a, (random_no)
                                                                                                                                                                                                                       ; 50% chance for 500 pts
; award 500 pts
; 25% chance for 800 pts
; award 800 pts
                                                                                      rra
                                                                                                            C, award_500_pts
                                                                                       qį
1DFC 1F
1DFD DA 10 1E
1E00
1E00
                                                                                       rra
                                                                                       jp
                                                                                                            C, award_800_pts
                                            award_300_pts:
                                                                                                                                                                                                                       ; CODE XREF: check_and_handle_bonus+1E<sup>†</sup> j
1E00 06 7D
1E00 1E00 1E02 11 03 00
1E05 C3 15 1E
                                                                                                                                                                                                                       ; check_and_handle_bonus+2Efj; '300' sprite tile; award 3 (300) points
                                                                                                            b, #0x7D ; '}'
de, #3
                                                                                                            award points
                                                                                       qŗ
award_500_pts:
                                                                                                                                                                                                                            CODE XREF: check_and_handle_bonus+32<sup>†</sup> j
                                                                                                                                                                                                                       ; check_and_handle_bonus+3Cfj; '500' sprite tile; award 5 (500) points
                                                                                                            b, #0x7E ; '~'
de, #5
                                                                                       14
                                                                                                            award_points
                                                                                       qį
                                                                                                                                                                                                                           CODE XREF: check_and_handle_bonus+351j check_and_handle_bonus+401j '800' sprite tile add_bonus_and_update_high_score (800)
                                            award 800 pts:
                                                                                                            b, #0x7F ; ' 'de, #8
                                                                                                                                                                                                                           CODE XREF: check_and_handle_bonus+481j
                                            award points:
1E15 CD 9F 30
1E15
1E18 2A 43 63
1E1B 7E
                                                                                                                                                                                                                       ; cobe Are: check_and_handle_bonus+50fj;
; check_and_handle_bonus+50fj;
; schedule award points
; ptr x position
; prize x position
; erase prize
; go to y position
                                                                                                            queue_fg_vector_fn
hl, (unk_0_6343)
a, (hl)
                                                                                      call
ld
ld
1E1C 36 00
1E1E 2C
1E1F 2C
1E20 2C
                                                                                      ld
                                                                                                             (hl), #0
                                                                                       inc
                                                                                       inc
1E20 2C

1E21 4E

1E22 C3 36 1E

1E25

1E25 11 01 00

1E28

1E28 CD 9F 30
                                                                                       ld
                                                                                                            c, (hl)
loc_0_1E36
                                                                                                                                                                                                                       ; get y position
; program award sprite
                                                                                       jр
                                                                                      1d
                                                                                                            de, #1
                                                                                                                                                                                                                       ; add_bonus_and_update_high_score (100)
                                                                                                                                                                                                                       ; CODE XREF: 0000:3E76|j; 0000:3E7E|j ...; schedule award points
                                            loc_0_1E28:
1E28
1E2B 3A 05 62
1E2E C6 14
1E30 4F
                                                                                      call
ld
add
ld
                                                                                                            queue_fg_vector_fn
a, (mario_x)
a, #0x14
1E30 4F
1E31 3A 03 62
1E34 00
1E35 00
1E36
1E36 21 30 6A
1E39 77
1E3A 2C
1E3B 70
1E3C 2C
1E3D 36 07
1E3F 2C
1E3D 36 07
                                                                                      ld
                                                                                                            a, (mario_y)
                                                                                       nop
                                                                                      nop
                                                                                                                                                                                                                       ; CODE XREF: check_and_handle_bonus+65\uparrow j add bonus points sprite to display
                                            loc_0_1E36:
                                                                                                            hl, #soft_sprite_ram+0x130
(hl), a
                                                                                       1d
                                                                                       inc
                                                                                      ld
inc
                                                                                                            (hl), b
                                                                                                            (hl), #7
                                                                                       1d
                                                                                       inc
                                                                                                            (hl), c
a, #5
0x30
1E40 71
1E41 3E 05
                                                                                      ld
ld
1E43 F7
                                                                                                                                                                                                                       ; return if level bit not set
1B43 F7

1B44 21 85 60

1B47 36 03

1B49

1B49

1B49 C9

1B49

1B49

1B49

1B44

1B4A

1B4A

1B4A 21 41 63
                                                                                      rst
                                                                                                            hl, #digital_snd_tmr_barrel_jump_priz
(hl), #3
                                            no bonus:
                                                                                                                                                                                                                        ; DATA XREF: check and handle bonus+410
                                            ret; End of function check_and_handle_bonus
                                            remove_bonus:
                                                                                                                                                                                                                        ; DATA XREF: check_and_handle_bonus+8<sup>†</sup>o
1E4A 21 41 63
1E4D 35
                                                                                                           hl, #show_bonus_timer
(hl)
                                                                                       1d
                                                                                      dec
1E4E C0
1E4F AF
                                                                                      ret
1E50 32 30 6A
1E53 32 40 63
                                                                                       1d
                                                                                                            (soft_sprite_ram+0x130), a
(show_bonus_state), a
                                                                                      14
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
                                                       ret
1E57
1E57
1E57
1E57
                            ; SUBROUTINE 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
                                                                                                                                           ; CODE XREF: 0000:19B91p
                            sub_0_1E57:
                                                                     a, (level_type)
2, a
NZ, loc_0_1E80
                                                        jp
rra
ld
jp
                                                                     a, (mario_x)
C, loc_0_1E7A
#0x51; 'Q'
                                                       cp
ret
ld
rla
1E68 D0
1E69 3A 03 62
1E6C 17
1E6D
                                                                     NC a, (mario_y)
1E6D 1E6D 3E 00 1E6F DA 74 1E 1E72 3E 80 1E74 1E74 1E74 32 4D 69 1E7A 1E7A 1E7A 1E7A FE 31 1E7C DO 1E7D C3 6D 1E 1E80
                            loc_0_1E6D:
                                                                                                                                           ; CODE XREF: sub_0_1E57+26 | j
                                                                      a, #0
C, loc_0_1E74
a, #0x80; 'Ç'
                                                        1d
                                                        jp
ld
                            loc_0_1E74:
                                                                                                                                            ; CODE XREF: sub_0_1E57+18 j
                                                                      (soft_sprite_ram+0x4D), a
loc_0_1E85
                                                        1d
                            loc_0_1E7A:
                                                                                                                                            ; CODE XREF: sub 0 1E57+C| j
                                                        cp
ret
jp
                                                                      #0x31 ; '1'
                                                                      NC loc_0_1E6D
loc_0_1E80:
                                                                                                                                           ; CODE XREF: sub_0_1E57+5 j
                                                                      a, (unk_0_6290)
                                                        ld
                                                        and
                                                                      NZ
                                                        ret
                            loc_0_1E85:
                                                                                                                                           ; CODE XREF: sub_0_1E57+20 j
                                                        ld
                                                                      a. #0x16
                                                                     (main_sequencer), a
                                                        1d
                                                        pop
                                                        ret
                            ; End of function sub_0_1E57
                            ; SUBROUTINE SUBROUTINE
                            sub_0_1E8C:
                                                                                                                                           ; CODE XREF: 0000:197D↑p
                                                        ld
                                                                      a, (unk_0_6350)
                                                        and
ret
call
                                                                      sub_0_1E96
1E94 E1
1E95 C9
1E95
1E95
                                                        pop
ret
                            ; End of function sub_0_1E8C
1E96
1E96
1E96
1E96
                            ; SUBROUTINE
1E96 3A 45 63 1E99 EF 1E99 EF 1E99 1E99 1E9A A0 1E 1E9C 09 IF 1E9C 23 1F 1EAO 1EAO 1EAO 3A 52 63 1EA3 FE 65 1EAS 21 EA B6 69 1EAS CA B4 1E 1EAB 21 DO 69 1EAE DA B4 1E
                            sub_0_1E96:
                                                                                                                                            ; CODE XREF: sub_0_1E8C+5 p
                                                        ld
rst
                                                                     a, (unk_0_6345)
0x28
                                                        .dw loc_0_1EA0
.dw loc_0_1F09
.dw loc_0_1F23
                                                                                                                                            ; Jump table
                                                                                                                                           ; DATA XREF: sub_0_1E96+4<sup>†</sup>o; hammer just hit something
                            loc_0_1EA0:
                                                                     a, (unk_0_6352)
#0x65; 'e'
hl, #soft_sprite_ram+0xB8
Z, loc_0_1EB4
hl, #soft_sprite_ram+0xD0
C, loc_0_1EB4
hl, #soft_sprite_ram+0x80
                                                        ld
                                                                                                                                           ; process hammer hit effect (start)
                                                        jp
ld
                                                                                                                                           ; fireball area in sprite ram
1EAE DA B4 1E
1EB1 21 80 69
1EB4
                                                                                                                                           ; CODE XREF: sub_0_1E96+12<sup>†</sup> j ; sub_0_1E96+18<sup>†</sup> j
                            loc_0_1EB4:
1EB4
1EB4 DD 2A 51 63
1EB4 DD 2A 51 63
1EB8 16 00
1EBA 3A 53 63
1EBD 5F
1EBE 01 04 00
                                                                     ix, (unk_0_6351)
d, #0
a, (unk_0_6353)
e, a
bc, #4
a, (unk_0_6354)
a
                                                        1d
                                                        ld
                                                        ld
ld
1EC1 3A 54 63
1EC4 A7
                                                        ld
                                                        and
1EC5 CA CF 1E
1EC8
1EC8
                                                                      Z, loc_0_1ECF
                           loc_0_1EC8:
                                                                                                                                           ; CODE XREF: sub_0_1E96+36|j
1EC8 0
1EC9 DD 19
1EC9 3D 1ECC C2 C8 1E
1ECF 1ECF DD 36 00 00
1ED3 DD 7E 15
1ED6 A7
1ED7 3E 02
1ED9 CA DE 1E
1EDC 3E 04
                                                        add
                                                                     hl, bc
ix, de
                                                        add
dec
                                                                      a
NZ, loc_0_1EC8
                                                        jр
                            loc_0_1ECF:
                                                                                                                                           ; CODE XREF: sub_0_1E96+2F|j
                                                                     0(ix), #0
a, 0x15(ix)
a
a, #2
Z, loc_0_1EDE
a, #4
                                                        ld
                                                        ld
                                                        and
ld
                                                        jp
ld
1EDC 3E 04
1EDE
1EDE
1EDE 32 42 63
1EE1 01 2C 6A
                                                                                                                                           ; CODE XREF: sub_0_1E96+43<sup>†</sup>j
                            loc_0_1EDE:
                                                                     (unk_0_6342), a
bc, #soft_sprite_ram+0x12C
a, (h1)
(h1), #0
(bc), a
                                                        1d
                                                        ld
1EE1 01 2C
1EE4 7E
1EE5 36 00
1EE7 02
1EE8 0C
1EE9 2C
1EEA 3E 60
1EEC 02
                                                        ld
ld
ld
                                                                                                                                            ; flash sprite x coord
                                                        inc
inc
ld
                                                                      a, #0x60 ; '`'
(bc), a
                                                                                                                                            ; initial hit sprite character ; flash sprite character
                                                        1d
1EEC 02
1EED 0C
1EEE 2C
1EEF 3E 0C
                                                        inc
                                                        inc
ld
ld
                                                                      a, #0xC
(bc), a
1EF1 02
                                                        inc
1EF2 OC
1EF3 2C
1EF4 7E
                                                                      a, (hl)
                                                        ld
                                                                     (bc), a
hl, #unk_0_6345
(hl)
1EF5 02
                                                        ld
                                                                                                                                           ; flash sprite y coord
1EF 5 02
1EF 6 21 45 63
1EF 9 34
1EF A 2C
1EF B 36 06
                                                        ld
inc
                                                        inc
                                                                      (hl), #6
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
1EFD 2C

1EFE 36 05

1F00 21 8A 60

1F03 36 06

1F05 2C

1F06 36 03

1F08 C9

1F08

1F08

1F09
                                                                                  (h1), #5
h1, #unk_0_608A
(h1), #6
                                                                   1d
                                                                  ld
ld
inc
                                                                                   (hl), #3
                                                                  ld
                                  ret; End of function sub_0_1E96
1F09
1F09
1F09 21 46 63
                                                                                                                                                                     ; DATA XREF: sub_0_1E96+6↑o ; process hammer hit effect (middle)
                                  loc_0_1F09:
                                                                  ld
                                                                                  hl, #unk_0_6346
(hl)
1F09 21 46 63
1F0C 35
1F0D C3
1F0E 36 06
1F10 2C
1F11 35
1F12 CA 1D 1F
1F15 21 2D 6A
1F18 7E
1F19 EE 01
1F1B 77
1F1C C9
1F1D
1F1D
1F1D
1F1D 1F1D
1F1D 36 04
1F1F 2D
1F20 2D
                                                                  dec
ret
ld
                                                                                  NZ
(hl), #6
                                                                   inc
                                                                                  l
(hl)
Z, loc_0_1F1D
hl, #0x6A2D
a, (hl)
#1
                                                                  dec
jp
ld
                                                                  ld
                                                                                                                                                                     ; animate hit flash
                                                                                   (hl), a
                                                                  ret
                                 loc_0_1F1D:
                                                                                                                                                                     ; CODE XREF: 0000:1F12<sup>†</sup>j
                                                                  1d
                                                                                   (hl), #4
                                                                  dec
1F1F 2D
1F20 2D
1F21 34
1F22 C9
                                                                                   (hl)
                                                                  ret
1F23
1F23
1F23
1F23 21 46 63
                                                                                                                                                                     ; DATA XREF: sub_0_1E96+8<sup>o</sup>; process hammer hit effect (end)
                                 loc_0_1F23:
                                                                                  hl, #unk_0_6346
(hl)
1F23 21 46 63
1F26 35
1F27 C0
1F28 36 0C
1F28 36 0C
1F2B 35
1F2C CA 34 1F
1F2F 21 2D 6A
1F32 34
1F33 C9
1F34
1F34
1F34
1F34
1F34
                                                                  ld
                                                                  dec
ret
ld
                                                                                   NZ
(hl), #0xC
                                                                   inc
                                                                                  (hl)
Z, loc_0_1F34
hl, #soft_sprite_ram+0x12D
(hl)
                                                                  dec
jp
ld
                                                                   inc
                                                                                                                                                                     ; animate hit flash
                                 loc_0_1F34:
                                                                                                                                                                     ; CODE XREF: 0000:1F2C1 i
1F34 2D 1F35 2D 1F36 AF 1F37 77 1F38 3C 50 63 1F3B 3C 1F3C 32 40 63 1F3F 21 2C 6A 1F42 22 43 63 1F45 C9 1F46
                                                                  dec
dec
                                                                  xor
                                                                                   a
(hl), a
(unk_0_6350), a
                                                                  ld
ld
                                                                                                                                                                     ; stop effect process
                                                                   inc
                                                                                  (show_bonus_state), a
hl, #soft_sprite_ram+0x12C
(unk_0_6343), hl
                                                                  ld
ld
ld
                                                                  ret
1F46
1F46
1F46
1F46
                                                               SUBROUTINE
                                 sub_0_1F46:
                                                                                                                                                                     ; CODE XREF: 0000:19A41p
1F46 3A 21 62
1F49 A7
1F4A C8
1F4B AF
1F4C 32 04 62
1F4F 32 06 62
                                                                  ld
and
                                                                                   a, (unk_0_6221)
                                                                  ret
xor
IF4B AF

IF4C 32 04 62

IF5C 32 06 62

IF5S 32 10 62

IF5S 32 11 62

IF5B 32 11 62

IF5B 32 12 62

IF5B 32 14 62

IF6B 32 14 62

IF6B 32 16 62

IF6B 32 16 62

IF6B 3A 05 62

IF71 C9
                                                                                  a (unk_0_6204), a (unk_0_6206), a (unk_0_6221), a (unk_0_6211), a (unk_0_6211), a (unk_0_6212), a (unk_0_6213), a (unk_0_6214), a
                                                                  ld
ld
                                                                  ld
ld
ld
ld
                                                                  ld
ld
                                                                   inc
ld
                                                                                  a (mario_jumping), a (unk_0_621F), a a, (mario_x) (unk_0_620E), a
                                                                  ld
ld
ld
ret
                                  ; End of function sub_0_1F46
                                  ; SUBROUTINE SUBROUTINE
                                                                                                                                                                     ; CODE XREF: 0000:1983 p
                                  sub_0_1F72:
                                                                  1d
                                                                                  a, (level_type)
a
NZ
1F75 3D
1F76 C0
1F77 DD 21 00 67
                                                                  dec
ret
ld
                                                                                 NZ ix, #unk_0_6700 hl, #soft_sprite_ram+0x80 de, #0x20; ' ' b, #0xA
1F7B 21 80 69
1F7E 11 20 00
1F81 06 0A
1F83
                                                                  ld
ld
ld
loc_0_1F83:
                                                                                                                                                                     ; CODE XREF: sub_0_1F72+1E|j
                                                                   ld
                                                                                   a, 0(ix)
                                                                  dec
                                                                  jp
inc
inc
                                                                                   Z. loc 0 1F93
                                                                   inc
                                 loc_0_1F8D:
                                                                                                                                                                     ; CODE XREF: 0000:21CE-1
                                                                  add
djnz
ret
                                                                                  ix, de
loc_0_1F83
                                  loc_0_1F93:
                                                                                                                                                                     ; CODE XREF: sub_0_1F72+15<sup>†</sup> j
                                                                                   a, 1(ix)
                                                                  dec
                                                                                  Z, loc_0_20EC
a, 2(ix)
                                                                  jp
ld
                                                                  rra
jp
rra
                                                                                  C, loc_0_1FAC
1FA1 1F
1FA1 1F
1FA2 DA E5 1F
1FA5 1F
1FA6 DA EF 1F
1FA9 C3 53 20
1FAC
1FAC
1FAC
1FAC D9
                                                                                   C, loc_0_1FE5
                                                                                  C, loc_0_1FEF
loc_0_2053
                                                                  jp
jp
                                 loc_0_1FAC:
                                                                                                                                                                     ; CODE XREF: sub 0 1F72+2C1 j
                                                                  exx
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
DD 34 05
1FB0 DD 7E 17
1FB3 DD BE 05
1FB6 C2 CE 1F
1FB9 DD 7E 15
1FBC 07
1FBD 07
1FBD 07
1FBC 6 15
1FC0 DD 77 07
1FC3 DD 76 07
1FC3 DD 77 02
1FC6 EE 07
1FC8 DD 77 02
1FC8 DD 77 02
1FC8 DD 78 02
1FC8 C3 BA 21
                                                                             5(ix)
                                                                            a, 0x17(ix)
5(ix)
NZ, loc_0_1FCE
a, 0x15(ix)
                                                             ld
                                                             cp
jp
ld
                                                             rlca
rlca
add
ld
                                                                            a, #0x15
7(ix), a
a, 2(ix)
#7
2(ix), a
loc_0_21BA
                                                                                                                                                         ; switch downwards (sideways) barrel to rolling barrel
                                                              1d
                                                             xor
ld
                                                              jр
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 BD 7E 01
1FCE 1FD1 3D 1FD2 C2 DF 1F 1FD5 DD 7E 07
                                                             1d
                                                                             a, 0xF(ix)
                                                              dec
                                                                            a
NZ, loc_0_1FDF
a, 7(ix)
#1
                                                              jp
ld
                                                                                                                                                         ; animate sideways barrel sprite
1FDS EE 01
1FDA DD 77 07
1FDD 3E 04
1FDF
                                                                             7(ix), a
                                                             1d
                                                                             a, #4
1FDF
1FDF DD 77 OF
1FE2 C3 BA 21
1FE5
                               loc_0_1FDF:
                                                                                                                                                         ; CODE XREF: sub_0_1F72+60 j
                                                                             0xF(ix), a loc_0_21BA
                                                              jр
1FE5
1FE5
1FE5 D9
                               loc_0_1FE5:
                                                                                                                                                         ; CODE XREF: sub_0_1F72+30 j
1FE5 D9
1FE6 01 00 01
1FE9 DD 34 03
1FEC C3 F6 1F
1FEF
                                                              exx
                                                                            bc, #0x100
3(ix)
loc_0_1FF6
                                                             ld
inc
                                                              jр
1FEF
1FEF
1FEF
1FEF D9
1FF0 01 04 FF
1FF3 DD 35 03
1FF6
1FF6 DD 66 03
                               loc_0_1FEF:
                                                                                                                                                         ; CODE XREF: sub_0_1F72+34 j
                                                              exx
                                                                            bc, #0xFF04
3(ix)
                                                              ld
                               loc 0 1FF6:
                                                                                                                                                         ; CODE XREF: sub_0_1F72+7A j
                                                                            h, 3(ix)
1, 5(ix)
a, h
#7
                                                              ld
1FF0 DD 6E 05
1FF0 7C
1FFD E6 07
1FFF FE 03
                                                             ld
ld
                                                             and
                                                             cp
jp
dec
                                                                             #3
Z, loc_0_215F
                                                             dec
dec
call
inc
                                                                             sub_0_2333
                                                             inc
inc
ld
ld
                                                                            1 a, 1 5(ix), a sub_0_23DE sub_0_24B4 a, 3(ix) #0x1C C, loc_0_202F #0xE4; 'ŏ' C, loc_0_21BA a
                                                             call
call
ld
                                                             cp
jp
cp
jp
                                                             xor
ld
ld
                                                                             0x10(ix), a
0x11(ix), #0x60; '''
loc_0_2038
                                                              jр
                                                                                                                                                         ; CODE XREF: sub_0_1F72+AA^jj
                               loc_0_202F:
                                                                             a
0x10(ix), #0xFF
0x11(ix), #0xA0 ; 'á'
                                                              1d
                              loc 0 2038:
                                                                                                                                                         ; CODE XREF: sub 0 1F72+BA1i
                                                                             0x12(ix), #0xFF
0x13(ix), #0xF0; '-'
0x14(ix), a
                                                             ld
ld
                                                                            0xE(ix), a
4(ix), a
6(ix), a
2(ix), #8
loc_0_21BA
                                                              ld
                                                             ld
ld
ld
                                                              jp
                              loc_0_2053:
                                                                                                                                                         ; CODE XREF: sub 0 1F72+37 j
                                                              exx
                                                             call
                                                                            sub_0_239C
sub_0_2A2F
                                                             and
                                                                            a
NZ, loc_0_2083
a, 3(ix)
a, #8
#0x10
                                                             jp
ld
add
                                                             cp
jp
call
ld
and
                                                                            C, loc_0_2079
sub_0_24B4
a, 0x10(ix)
#1
                                                             rlca
rlca
                                                              1d
                                                                             c, a
sub_0_23DE
loc_0_21BA
                                                              call
                                                              jp
                               loc 0 2079:
                                                                                                                                                        ; CODE XREF: sub 0 1F72+F31i
                                                             xor
ld
                                                                            a
0(ix), a
3(ix), a
loc_0_21BA
                                                              1d
                              loc_0_2083:
                                                                                                                                                        ; CODE XREF: sub 0 1F72+E91 j
                                                             inc
                                                                            0xE(ix)
a, 0xE(ix)
                                                             ld
dec
                                                                             a
Z, loc_0_20A2
                                                             jp
dec
jp
ld
                                                                            a
Z, loc_0_20C3
a, 0x10(ix)
a
                                                             dec
2095 3E 04
2097 C2 9C 20
209A 3E 02
209C
                                                                            a, #4
NZ, loc_0_209C
a, #2
                                                             ld
                                                             jp
ld
```

```
2184 BA
ld
rra
inc
                                                             a, (unk_0_6380)
                                                 ld
ld
ld
                                                             b, a
a, (random_no)
c, a
#3
                                                 and
                                                 cp
ret
ld
ld
                                                             NC
                                                              hl, #controller_in
                                                              a, (mario_y)
                                                             a, (mar10_y)
e
Z, loc_0_21B2
NC, loc_0_21A9
0, (h1)
Z, loc_0_21AE
loc_0_21B2
                                                 cp
jp
                                                 jp
bit
                                                                                                                           ; right?
                                                 jp
gj
                                                                                                                           ; no, skip
                                                                                                                          ; CODE XREF: sub_0_216D+31<sup>†</sup>j; left?
; yes, skip
                         loc_0_21A9:
                                                             1, (hl)
NZ, loc_0_21B2
                                                 jр
                         loc_0_21AE:
                                                                                                                           ; CODE XREF: sub_0_216D+36 j
                                                              a, c
#0x18
                                                 and
                                                 ret
                                                                                                                           ; CODE XREF: sub_0_216D+F^{\dagger}j; sub_0_216D+2E^{\dagger}j ...
                        loc_0_21B2:
                                                 inc
set
                                                             7(ix)
0, 2(ix)
                                                                                                                           ; sprite tile #
; switch rolling barrel to going-down-ladder barrel
                                                 ret
                         ; End of function sub_0_216D
                                                                                                                          ; CODE XREF: sub_0_1F72+59<sup>†</sup>j; sub_0_1F72+70<sup>†</sup>j ...
                        loc 0 21BA:
                                                             a, 3(ix)
(hl), a
                                                                                                                           ; set sprite X
                                                 ld
ld
                                                             1
a, 7(ix)
(hl), a
                                                 inc
ld
                                                                                                                           ; set sprite tile #
                                                 1d
                                                             a, 8(ix)
(hl), a
                                                 ld
ld
                                                                                                                           ; set sprite vflip & palette
                                                             l
a, 5(ix)
(hl), a
loc_0_1F8D
                                                 inc
                                                 ld
ld
                                                                                                                           ; set sprite Y
                                                 qį
                         attract_mario_inputs:.dw 0xFE80
                                                                                                                           ; DATA XREF: next_attract_action o ; 1st byte is input, 2nd is timer
                                                  .dw 0xC001
                                                 .dw 0xC001
.dw 0x5004
.dw 0x1002
.dw 0x1002
.dw 0x1002
.dw 0x1002
.dw 0xCM82
.dw 0x1001
.dw 0xFF81
.dw 0x3802
.dw 0x8001
.dw 0xFF02
.dw 0x8004
.dw 0x6004
                                                  .dw 0x6004
                                                  .db 0x80
                         ; BUBROUTINE
                                                                                                                           ; CODE XREF: 0000:1977 p
                         next_attract_action:
                                                              de, #attract mario inputs
                                                 ld
                                                 ld
ld
rlca
                                                             hl, #attract_movement_entry
a, (hl)
                                                                                                                          ; get entry
; convert to word
; add to base
; ptr to entry
; lst byte of entry
; store simulated inputs
                                                             a, e
e, a
a, (de)
(controller_in), a
                                                 add
                                                 ld
ld
ld
                                                 inc
                                                             a, (hl)
(hl)
                                                 ld
dec
                                                                                                                          ; get movement timer ; done?
                                                 and
                                                              a
NZ
                                                                                                                           ; no, return
; ptr 2nd byte of entry
; get 2nd byte
; store as timer
                                                 ret
inc
ld
ld
                                                             e
a, (de)
(hl), a
                                                 dec
inc
                                                                                                                           ; back to entry
; next entry
                                                              (hl)
                                                 ret
                        ; End of function next_attract_action
                         ; THE STANDARD SUBROUTINE THE STANDARD
                                                                                                                           ; CODE XREF: 0000:199B↑p
                         sub_0_2207:
                                                              a, #2
                                                 1d
                                                              0x30
                                                                                                                           ; return if level bit not set
                                                 rst
                                                 ld
rra
                                                              a, (gen_purpose_timer)
                                                             hl, #unk_0_6280
                                                 1d
                                                             a, (h1)
C, loc_0_2219
h1, #unk_0_6288
a, (h1)
                                                 1d
                                                 jp
ld
                                                 ld
                         loc_0_2219:
                                                                                                                           ; CODE XREF: sub_0_2207+B<sup>†</sup> j
                                                 push
                                                 rst
daa
ld
                                                             0x28
                                                                                                                           ; qo!
                                                              (loc_0_2259), hl
                                                 sbc
ld
                                                              a, c (loc_0_22A2), hl
                                                 nop
nop
                                                 nop
                                                 nop
pop
inc
                                                             hl
                                                             l
(hl)
NZ, loc_0_223A
2229 35
222A C2 3A 22
                                                 dec
```

File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
(hl)
                                                  inc
                                                  inc
inc
call
                                                              sub_0_2243
                                                              a, #1
(unk_0_621A), a
                                                  ld
                                                  14
                         loc_0_223A:
                                                                                                                            ; CODE XREF: sub_0_2207+23 j
                                                  inc
call
                                                              sub_0_2243
                                                  xor
ld
ret
                                                              a (unk_0_621A), a
                         ; End of function sub 0 2207
                         ; SUBROUTINE SUBROUTINE
                         sub_0_2243:
                                                                                                                            ; CODE XREF: sub_0_2207+2A\(^1\)p ; sub_0_2207+34\(^1\)p ...
                                                             a, (mario_x)
#0x7A; 'z'
NC, loc_0_2257
a, (mario_jumping)
a
                                                  ld
                                                  cp
jp
ld
                                                  and
                                                              NZ, loc_0_2257
a, (mario_y)
(hl)
                                                  jp
ld
                                                  cp
ret
                                                                                                                            ; CODE XREF: sub_0_2243+5<sup>†</sup> j ; sub_0_2243+C<sup>†</sup> j
                         loc_0_2257:
                         pop hl ret; End of function sub_0_2243
                         loc 0 2259:
                                                                                                                            ; DATA XREF: sub 0 2207+15 w
                                                  pop
inc
inc
                                                              hl
                                                 inc
inc
dec
ret
ld
ld
dec
inc
                                                              1
(hl)
NZ
a, #4
(hl), a
                                                              1
(hl)
                                                              sub_0_22BD
a, #0x78; 'x'
(h1)
NZ, loc_0_2275
                                                 call
ld
                                                  cp
jp
dec
dec
dec
                                                              (hl)
                                                  inc
                                                  inc
                         loc_0_2275:
                                                                                                                           ; CODE XREF: 0000:226B1i
                                                  dec
call
ld
                                                              sub_0_2243
                                                              a, (mario_x)
#0x68; 'h'
NC, loc_0_228A
                                                  cp
jp
                         loc_0_2281:
                                                                                                                           ; CODE XREF: 0000:228B-j
                                                              hl, #mario_x
(hl)
sub_0_3FC0
                                                  ld
                                                  inc
call
                                                  inc
ret
                                                              (hl)
                         loc_0_228A:
                                                                                                                            ; CODE XREF: 0000:227E↑j
                                                              C, loc_0_2281
                                                  jp
rra
                                                  ld
                                                  jр
                                                  xor
                         loc_0_2295:
                                                                                                                            ; CODE XREF: 0000:22911i
                                                              (unk_0_6222), a
                                                  ret
                                                 pop
ld
and
                                                              a, (random_no)
#0x3C; '<'
                                                  ret
inc
                                                              (hl)
                         loc_0_22A2:
                                                                                                                            ; DATA XREF: sub_0_2207+19\u00e9w
                                                              hl
                                                  pop
inc
                                                  inc
                                                  inc
dec
ret
ld
                                                              (hl)
22A8 CO
22A9 36 02
22A9 36 02
22AB 2D
22AC 35
22BC 35
22BC BE
22BS 66
22B3 CO
22B4 AF
22B5 06 80
22B7 2D
22B8 2D
22B8 2D
22B8 2D
22B8 77
22B8 77
22BB 77
22BB 77
22BC C9
22BD
                                                              NZ
(hl), #2
                                                 dec
dec
call
ld
                                                              (hl)
sub_0_22BD
a, #0x68; 'h'
(hl)
                                                  cp
ret
                                                  xor
ld
                                                              a
b, #0x80 ; 'Ç'
                                                  dec
                                                  dec
ld
                                                               (hl), b
                                                  dec
                                                              (hl), a
                                                  ld
                         ; SUBROUTINE SUBROUTINE
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
23F1 3E 03
                                                    a, #3
                                          ld
call
rra
rr
                                                    sub_0_3009
                                                                                                         ; toggle H & V flips
                                          rra
                                                    7(ix)
                                                                                                         ; toggle H & V flips
                                          ld
                     loc 0 2403:
                                                                                                         ; CODE XREF: sub 0 23DE+41j
                                          ld
                                                    0xF(ix), a
                     ; End of function sub_0_23DE
                     ; INTEREST SUBROUTINE INTEREST SUBSTILIANO
                                                                                                         ; CODE XREF: sub_0_1AC3+11C\uparrowp ; sub_0_1F72+151\uparrowp ...
                     sub_0_2407:
                                          1d
                                                    a. 0x14(ix)
                                          rlca
rlca
                                          rlca
                                          rlca
                                          ld
and
                                                     c, a
#0xF
                                          ld
ld
                                                     h, a
a. c
                                          and
ld
ld
                                                     #0xF0 ; '-'
                                                    l, a
c, 0x13(ix)
b, 0x12(ix)
hl, bc
                                          1d
                                          sbc
                                          ret
                     ; End of function sub_0_2407
                     ; SUBROUTINE CONTINE
                                                                                                         ; CODE XREF: sub_0_1AC3+23\p; sub_0_1AC3+102\p ...
                     sub_0_241F:
                                                    de, #0x100
a, (mario_y)
#0x16
                                          ld
                                          ld
cp
ret
dec
                                                     e
#0xEA ; 'Û'
                                          cp
ret
dec
ld
                                                    a, (level_type)
                                          rrca
                                          ret
ld
                                                    NC
                                                     a, (mario_x)
#0x58; 'X'
                                          ср
                                                    NC
a, (mario_y)
#0x6C; 'l'
NC
                                          ret
                                          ld
                                          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
                                          ld
                     loc_0_2448:
                                                                                                         ; CODE XREF: sub_0_2441+9|j
                                                    a, (hl)
                                          add
                                          inc
                                                    loc_0_2448
iy, #unk_0_6310
                                          djnz
ld
and
                                                    a
Z, loc_0_2456
                                          jp
inc
                     loc_0_2456:
                                                                                                         ; CODE XREF: sub 0 2441+10 j
                                                    a, (level_type)
                                          ld
                                          dec
ld
                                                    a
hl, #barrel_level_tilemap_data
Z, loc_0_2471
                                          jp
dec
                                          ld
jp
dec
                                                    hl, #cement_pie_level_tilemap_data Z, loc_0_2471
                                                    hl, #elevator_level_tilemap_data
Z, loc_0_2471
hl, #rivet_level_tilemap_data
                                          ld
                                                                                                         ; CODE XREF: sub_0_2441+1C\uparrow j ; sub_0_2441+23\uparrow j ...
                     loc_0_2471:
                                                    ix, #unk_0_6300
de, #5
                                          ld
                                                                                                         ; CODE XREF: sub_0_2441+44\fi
; sub_0_2441+5A\fi ...
                     loc_0_2478:
                                          ld
                                                     a, (hl)
                                                     a
Z, loc_0_2488
                                          jp
dec
                                                    a
Z, loc_0_249E
#0xA9 ; '®'
                                          jp
cp
ret
                                                    hl, de
loc_0_2478
                                          add
                     loc_0_2488:
                                                                                                         ; CODE XREF: sub 0 2441+391 j
                                          inc
                                                    a, (hl)
0(ix), a
                                          ld
ld
                                                    hl
a, (hl)
0x15(ix), a
                                          inc
                                          ld
ld
                                          inc
                                                    hl
hl
                                          inc
2493 23
2494 7E
2495 DD 77 2A
2498 DD 23
249A 23
                                          ld
ld
                                                     a, (hl)
0x2A(ix), a
                                          inc
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM

        249B
        C3
        78
        24

        249E
        249E
        249E

        249F
        75
        00

        24AA
        75
        77
        00

        24AA
        78
        77
        15

        24AA
        78
        77
        15

        24AB
        75
        77
        15

        24AB
        78
        77
        12

        24AB
        78
        77
        2A

        24AB
        78
        78
        24

        24AB
        78
        24
        24

        24AB
        78
        78
        24

        24BB
        79
        78
        24

        24BB
        78
        24
        24

        24BB
        79
        78
        24

        24BB
        70
        <
                                                                                       loc_0_2478
                                                                      jр
                                   loc_0_249E:
                                                                                                                                                                              ; CODE XREF: sub_0_2441+3D<sup>†</sup> j
                                                                                       hl
a, (hl)
0(iy), a
hl
a, (hl)
0x15(iy), a
                                                                      ld
                                                                      ld
inc
                                                                       ld
                                                                       1d
                                                                      inc
inc
ld
                                                                                       hi
a, (hl)
0x2A(iy), a
                                                                       1d
                                                                      inc
                                   jp loc_
; End of function sub_0_2441
                                                                                        loc 0 2478
                                          SUBROUTINE
                                                                                                                                                                               ; CODE XREF: sub_0_1F72+A2\uparrowp ; sub_0_1F72+F6\uparrowp ...
                                   sub 0 24B4:
                                                                                       a, 5(ix)
#0xE8; 'b'
                                                                      ld
cp
                                                                                       C
a, 3(ix)
#0x2A; '*'
                                                                      ret
ld
                                                                      cp
ret
                                                                                        NC
#0x20 ; ' '
                                                                      cp
ret
ld
and
                                                                                       C
a, 0x15(ix)
                                                                                       a
Z, loc_0_24D0
                                                                      jp
ld
ld
                                                                                        a, #3
(unk_0_62B9), a
                                                                      xor
                                   loc_0_24D0:
                                                                                                                                                                               ; CODE XREF: sub 0 24B4+13 j
                                                                                       0(ix), a
3(ix), a
hl, #digital_snd_tmr_thump
(hl), #3
hl
a, (unk_0_6348)
a
                                                                      ld
ld
                                                                       ld
                                                                                                                                                                               ; tmr=3
                                                                      pop
ld
                                                                       and
                                                                       jp
inc
                                                                                        NZ, loc_0_21BA
                                                                                        a
(unk_0_6348), a
                                                                      ld
                                    jp loc_0_21BA; End of function sub_0_24B4
                                          SUBROUTINE
                                   sub_0_24EA:
                                                                                                                                                                               ; CODE XREF: 0000:1992 p
                                                                                       a, #2
0x30
sub_0_2523
sub_0_2591
ix, #unk_0_65A0
b, #6
hl, #soft_sprite_ram+0xB8
                                                                      ld
rst
call
call
                                                                                                                                                                               ; return if level bit not set
                                                                      ld
ld
                                                                                                                                                                               ; 6 sprites to update
                                                                      1d
                                    loc_0_24FC:
                                                                                                                                                                               ; CODE XREF: sub_0_24EA+2F|j
                                                                       ld
                                                                                        a, 0(ix)
                                                                      and
                                                                                       Z, loc_0_251C
a, 3(ix)
(hl), a
                                                                      jp
ld
ld
                                                                                                                                                                               ; sprite X
                                                                      inc
ld
ld
                                                                                       l
a, 7(ix)
(hl), a
                                                                                                                                                                               ; sprite tile #
                                                                       inc
                                                                                       l
a, 8(ix)
(hl), a
                                                                      ld
ld
                                                                                                                                                                               ; sprite v flip & palette
                                                                       inc
                                                                                       a, 5(ix) (hl), a
                                                                       ld
                                                                                                                                                                               ; sprite Y
                                                                      ld
inc
                                   loc_0_2517:
                                                                                                                                                                               ; CODE XREF: sub_0_24EA+36|j
                                                                      add
djnz
                                                                                        ix, de
loc_0_24FC
                                                                      ret
                                                                                                                                                                               ; CODE XREF: sub_0_24EA+16<sup>†</sup> j
                                   loc_0_251C:
                                                                       ld
                                                                                       a, #4
1, a
loc_0_2517
                                                                      add
ld
                                    jp loc_0
; End of function sub_0_24EA
                                    ; SUBROUTINE SUBROUTINE
                                    sub_0_2523:
                                                                                                                                                                               ; CODE XREF: sub_0_24EA+31p
                                                                                       hl, #unk_0_639B
a, (hl)
                                                                      ld
ld
                                                                       and
                                                                                       a
NZ, loc_0_258F
a, (unk_0_639A)
a
                                                                       jp
ld
                                                                       and
                                                                      ret
ld
                                                                                       Z
b, #6
                                                                                       de, #0x10
ix, #unk_0_65A0
                                                                       ld
                                                                       ld
                                   loc_0_2539:
                                                                                                                                                                              ; CODE XREF: sub_0_2523+1F|j
                                                                      bit
                                                                                       0, 0(ix)
Z, loc_0_2545
ix, de
loc_0_2539
                                                                      jp
add
djnz
                                                                      ret
                                   loc 0 2545:
                                                                                                                                                                               ; CODE XREF: sub_0_2523+1A j
                                                                      call
                                                                                        rand
                                                                                       rand

#0x60 ; '`'

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

C, loc_0_2558

a, (unk_0_62A3)
                                                                      cp
ld
                                                                      jp
ld
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
NZ, loc_0_256E
                                                                                                                   ; CODE XREF: sub_0_2523+2B| j
                                                          5(ix), #0xCC; '\'a, (unk_0_62A6)
                                              1d
                                              rlca
                                                                                                                   ; CODE XREF: sub_0_2523+50|j
                                                          3(ix), #7
NC, loc_0_2576
3(ix), #0xF8; '°'
loc_0_2576
                                              ld
                                               qį
                                                                                                                   ; CODE XREF: sub_0_2523+32 j
                                              call
                                                          rand
                                                          #0x68 ; 'h'
loc_0_2560
                                                                                                                   ; CODE XREF: sub_0_2523+41<sup>†</sup> j ; sub_0_2523+48<sup>†</sup> j
                                                         0(ix), #1
7(ix), #0x4B; 'K'
9(ix), #8
0xA(ix), #3
a, #0x7C; '|'
(unk_0_639B), a
                                              ld
                                                                                                                   ; cement pie sprite tile
                                              ld
                                              ld
ld
                                              ld
ld
                                                          a (unk_0_639A), a
                                                                                                                   ; CODE XREF: sub 0 2523+511
                                              dec
                                                          (hl)
                                              ret
                       ; End of function sub_0_2523
                       ; SUBROUTINE SUBROUTINE
                                                                                                                   ; CODE XREF: sub_0_24EA+61p
                                                         ix, #unk_0_65A0
de, #0x10
b, #6
                                              ld
                                              ld
                                                         0, 0(ix)

Z, loc_0_25BB

a, 3(ix)

h, a

a, #7

#0xE

C, loc_0_25D6

a, 5(ix)

#0x7C; '|'

Z, loc_0_25C0

a, (unk_0_63A6)

a, h
                                                                                                                   ; CODE XREF: sub 0 2591+2C-j
                                              hit
                                              jp
ld
                                              1d
                                              add
cp
                                              jp
ld
                                              cp
jp
ld
                                              add
ld
                                                                                                                   ; CODE XREF: sub_0_2591+D<sup>†</sup> j ; sub_0_2591+42<sup>†</sup> j ...
                                              add
djnz
                                                          ix, de
loc_0_259A
                                                                                                                   ; CODE XREF: sub_0_2591+20 j
                                                         a, h

#0x80; 'C'

Z, loc_0_25D6

a, (unk_0_63A5)

NC, loc_0_25CF

a, (unk_0_63A4)
                                              ld
                                              cp
jp
ld
                                                                                                                   ; CODE XREF: sub_0_2591+38 j
                                              add
ld
                                                          a, h
3(ix), a
loc_0_25BB
                                               jр
                                                                                                                   ; CODE XREF: sub_0_2591+18<sup>†</sup>j; sub_0_2591+32<sup>†</sup>j
                                                         hl, #soft_sprite_ram+0xB8
a, #6
b
                                              ld
                                              ld
sub
                                                                                                                   ; CODE XREF: sub 0 2591+53-j
                                              jp
inc
inc
                                                          Z, loc_0_25E7
                                              inc
inc
                                              dec
                                                          a
loc_0_25DC
                                               αĖ
                                                                                                                   ; CODE XREF: sub_0_2591+4B<sup>†</sup> j
                                              xor
                                              ld
ld
ld
                                                          0(ix), a
3(ix), a
(h1), a
loc_0_25BB
                       jp loc_
; End of function sub_0_2591
                       ; SUBROUTINE SUBROUTINE
                                                                                                                   ; CODE XREF: 0000:19AA p
                                                         a, #2
0x30
sub_0_2602
sub_0_262F
sub_0_2679
sub_0_2AD3
                                              ld
rst
call
                                                                                                                   ; return if level bit not set
                                              call
                                              call
call
ret
                       ; End of function sub_0_25F2
                       ; BURNESS SUBROUTINE
                                                                                                                   ; CODE XREF: 0000:16D5\p; sub_0_25F2+3\p
                       sub_0_2602:
                                              1.4
                                                     a, (gen_purpose_timer)
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
                                                                            rrca
                                                                                              C, loc_0_2616
h1, #unk_0_62A0
(h1)
NZ, loc_0_2616
(h1), #0x80; 'Ç'
2806 DA 16 26
2809 21 A0 62
2809 21 A0 62
2800 23 6 80
2812 2C
2813 CD DE 26
2816 21 A1 62
2816 21 A1 62
2816 22 A3 63
2817 3A 1A 60
2812 E6 1F
2824 FE 01
2826 E6 1F
2824 E7 01
2826 CO
2827 11 E4 69
2828 EB
2828 CD A6 26
2826 C9
2828 EB
2828 CD A6 26
2837 DA 6F 26
2837 DA 6F 26
2838 JA 1A 60
2838 DA 4C 26
2848 CD A6 26
2849 CD DE 26
2848 CD A6 26
2850 E6 TF
2857 32 A4 63
2855 ED 44 63
2855 ED 46 1F
2855 CD A6 26
2866 CD A6 26
                                                                            jp
ld
dec
                                                                            jp
ld
                                                                            call
                                                                                               sub_0_26DE
                                      loc 0 2616:
                                                                                                                                                                                             ; CODE XREF: sub_0_2602+4\uparrow j; sub_0_2602+B\uparrow j
                                                                                              hl, #unk_0_62Al
sub_0_26E9
(unk_0_63A3), a
a, (gen_purpose_timer)
#0x1F
                                                                            ld
call
                                                                            ld
ld
                                                                            and
                                                                            ср
                                                                                               #1
NZ
                                                                            ret
ld
                                                                                               de, #soft_sprite_ram+0xE4
de, hl
sub_0_26A6
                                                                            ex
                                                                            call
                                      ret; End of function sub_0_2602
                                       ; SUBROUTINE
                                       sub_0_262F:
                                                                                                                                                                                             ; CODE XREF: sub_0_25F2+61p
                                                                                              hl, #unk_0_62A3
a, (mario_x)
#0xC0; 'L'
C, loc_0_266F
a, (gen_purpose_timer)
                                                                            ld
ld
                                                                            ср
                                                                            jp
ld
                                                                            rrca
                                                                            jp
dec
dec
                                                                                               C. loc 0 264C
                                                                                              1 (hl)
NZ, loc_0_264C (hl), #0xC0; 'L'
                                                                            jp
ld
                                                                           inc
call
                                                                                               sub_0_26DE
                                                                                                                                                                                             ; CODE XREF: sub_0_262F+F<sup>†</sup> j
                                      loc_0_264C:
                                                                                                                                                                                              ; sub_0_262F+14<sup>†</sup>j ...
                                                                                               hl, #unk_0_62A3
sub_0_26E9
(unk_0_63A5), a
                                                                            1d
                                                                           call
ld
                                                                           neg
ld
ld
                                                                                               (unk_0_63A4), a
                                                                                               a, (gen_purpose_timer)
#0x1F
                                                                            and
ret
                                                                            dec
                                                                           ld
ex
call
                                                                                               de, #soft_sprite_ram+0xEC
de, h1
sub_0_26A6
#0x7F; ''
and
                                                                                               hl, #soft_sprite_ram+0xED (hl), a
                                                                            ld
ld
ret
                                       loc_0_266F:
                                                                                                                                                                                             ; CODE XREF: sub_0_262F+8 j
                                      loc_0_266F:

bit 7, (hl)
jp NZ, loc_0_264C
ld (hl), #0xFF
jp loc_0_264C
; End of function sub_0_262F
                                       ; SUBROUTINE SUBROUTINE
                                       sub_0_2679:
                                                                                                                                                                                             ; CODE XREF: sub_0_25F2+9<sup>p</sup>
                                                                            ld
                                                                                               a, (gen_purpose_timer)
2019 3A 1A 60

2670 0F

267D DA 8D 26

2680 21 A5 62

2683 35

2684 C2 8D 26

2687 36 FF

2689 2C

268A CD DE 26

268D 21 A6 62

268D 268D 25

268D 2690 CD E9 26

2693 32 A6 63

2699 34 1A 60

2699 E6 1F

2699 E0 1F

2698 C0

2698 TE 02

2690 C0

2691 11 F4 69

26A1 EB

26A1 CD A6 26
                                                                            rrca
                                                                            jp
ld
dec
                                                                                               C, loc_0_268D
hl, #unk_0_62A5
(hl)
NZ, loc_0_268D
                                                                           jp
ld
inc
call
                                                                                               (hl), #0xFF
                                                                                               sub_0_26DE
                                       loc_0_268D:
                                                                                                                                                                                             ; CODE XREF: sub_0_2679+4<sup>†</sup> j ; sub_0_2679+B<sup>†</sup> j
                                                                                              hl, #unk_0_62A6
sub_0_26E9
(unk_0_63A6), a
a, (gen_purpose_timer)
#0x1F
                                                                            ld
call
                                                                            ld
ld
                                                                            and
                                                                            cp
ret
ld
                                                                                               #2
NZ
                                                                                               de, #soft_sprite_ram+0xF4
de, hl
ex
                                                                                               sub_0_26A6
                                                                            call
                                      ret; End of function sub_0_2679
                                       ; SUBROUTINE
                                                                                                                                                                                              ; CODE XREF: sub_0_2602+29\p; sub_0_262F+36\p ...
                                      sub_0_26A6:
                                                                            inc
                                                                                               a, (de)
                                                                            ld
                                                                            rla
                                                                                               C, loc_0_26C5
a, (hl)
                                                                            jp
ld
                                                                            inc
                                                                                              a
#0x53; 'S'
NZ, loc_0_26B5
a, #0x50; 'P'
                                                                            ср
                                                                            jp
ld
                                       loc_0_26B5:
                                                                                                                                                                                            ; CODE XREF: sub_0_26A6+A1j
                                                                                               (hl), a
26B5 77
26B6 7D
26B7 C6 04
26B9 6F
26BA 7E
26BB 3D
                                                                                               a, 1
a, #4
l, a
a, (hl)
                                                                            ld
                                                                            add
ld
ld
                                                                            dec
                                                                                               #0xCF; '¤'
NZ, loc_0_26C3
a, #0xD2; 'Ê'
26BC FE CF
26BE C2 C3 26
                                                                            ср
                                                                            jp
ld
26C1 3E D2
26C3
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
; yes, return
                                                                                                               a, (mario_y)
#0x2C;','
C, loc_0_2766
#0x43;'C'
                                                                                         ld
                                                                                         cp
jp
                                                                                                                                                                                                                              ; not not elevator
                                                                                                               #0x43; 'C'

C, loc_0_276F

#0x6C; '1'

C, loc_0_2766

#0x83; 'â'

C, loc_0_2787
                                                                                          ср
                                                                                         jp
cp
jp
                                                                                                                                                                                                                               ; on left elevator
                                                                                                                                                                                                                               ; not on elevator
                                                                                         cp
jp
                                                                                                                                                                                                                               ; on right elevator
                                                                                                                                                                                                                               ; CODE XREF: sub\_0\_2745+F\uparrow j; sub\_0\_2745+19\uparrow j; mark off elevator
                                              loc_0_2766:
                                                                                         xor
ld
                                                                                                                (mario_on_elevator), a
                                                                                          inc
                                                                                                                (unk 0 6221), a
                                                                                         ld
                                                                                                               a, (mario_x)
#0x71; 'q'
C, mario_dies_on_elevator
a
                                             loc_0_276F:
                                                                                                                                                                                                                               ; CODE XREF: sub 0 2745+141 i
                                                                                         ld
                                                                                          ср
                                                                                                                                                                                                                               ; make mario die
; on upwards moving elevator
                                                                                         jp
dec
                                                                                         ld
ld
                                                                                                                (mario_x), a
(soft_sprite_ram+0x4F), a
                                                                                         ret
                                                                                                                                                                                                                               ; CODE XREF: sub_0_26FA+8<sup>†</sup> j ; sub_0_2745+2F<sup>†</sup> j ...
                                             mario_dies_on_elevator:
                                                                                         ld
ld
                                                                                                                (mario_alive_flag), a
(mario_on_elevator), a
                                                                                         ret
                                             loc_0_2787:
                                                                                                                                                                                                                               ; CODE XREF: sub_0_2745+1E<sup>†</sup>j
                                                                                         ld
                                                                                                                a, (mario_x)
#0xE8; 'b'
                                                                                                               #0xE8 ; 'Þ'
NC, mario_dies_on_elevator
                                                                                          cp
jp
                                                                                                                                                                                                                               ; on downwards moving elevator
                                                                                                                 (mario x), a
                                                                                         ld
                                                                                         ld
ret
                                                                                                                (soft_sprite_ram+0x4F), a
                                              ; End of function sub_0_2745
                                              ; SUBROUTINE
                                            sub_0_2797:
                                                                                                                                                                                                                               ; CODE XREF: sub_0_26FA+28<sup>p</sup>; move elevators to the right side
                                                                                                               b, #6
de, #0x10
ix, #unk_0_6600
                                                                                         ld
                                                                                          1d
                                                                                                                                                                                                                               ; CODE XREF: sub_0_2797+2D j
                                             loc_0_27A0:
                                                                                                               0, 0(ix)

Z, loc_0_27C2

3, 0xD(ix)

Z, loc_0_27C7

a, 5(ix)
                                                                                         bit
                                                                                         jp
ld
                                                                                                              5(ix), a

5(ix), a

#0x60; '''

NZ, loc_0_27C2

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

0xD(ix), #4
                                                                                         dec
                                                                                         cp
jp
ld
ld
                                                                                                                                                                                                                               ; CODE XREF: sub_0_2797+D^{\uparrow} j ; sub_0_2797+20^{\uparrow} j ...
                                            loc_0_27C2:
                                                                                         add
                                                                                                               ix, de
loc_0_27A0
                                                                                         djnz
ret
                                             loc_0_27C7:
                                                                                                                                                                                                                             ; CODE XREF: sub_0_2797+14 j
27C7 DD 7E 05
27C8 AC 27C8 AC 27C8
27C8 AC 27C8 AC 27C8
27C8 FE F8
27D0 C2 C2 27
27D3 DD 36 00 00
27D7 C3 C2 27
27D7 C3 C2 27
27D7 AC 27D8 AC 
                                                                                          ld
                                                                                                                a, 5(ix)
                                                                                          inc
                                                                                                               a 5(ix), a #0xF8; '°' NZ, loc_0_27C2 0(ix), #0 loc_0_27C2
                                                                                          ld
                                                                                         cp
jp
ld
                                              jp loc_
; End of function sub_0_2797
                                              ; SUBROUTINE SUBROUTINE
                                             sub_0_27DA:
                                                                                                                                                                                                                               ; CODE XREF: sub_0_26FA+2B↑p ; move elevators to the left side
                                                                                         ld
ld
                                                                                                               hl, #unk_0_62A7
a, (hl)
                                                                                         and
                                                                                                               a
NZ, loc_0_2806
                                                                                         jp
ld
ld
                                                                                                                ix, #unk_0_6600
                                             loc 0 27E8:
                                                                                                                                                                                                                             ; CODE XREF: sub 0 27DA+17-i
                                                                                                               0, 0(ix)
Z, loc_0_27F4
ix, de
loc_0_27E8
                                                                                         bit
                                                                                         jp
add
                                                                                          djnz
                                             loc 0 27F4:
                                                                                                                                                                                                                              ; CODE XREF: sub 0 27DA+121i
                                                                                                               O(ix), #1
3(ix), #0x37; '7'
5(ix), #0xF8; '0'
0xD(ix), #8
(h1), #0x34; '4'
                                                                                         ld
ld
                                                                                         ld
                                            loc_0_2806:
                                                                                                                                                                                                                              ; CODE XREF: sub 0 27DA+51 j
                                                                                        dec
                                                                                                                (hl)
                                              ret; End of function sub_0_27DA
                                                         SUBROUTINE
                                                                                                                                                                                                                               ; CODE XREF: 0000:19B3↑p
                                                                                                               iy, #mario_alive_flag
a, (mario_x)
c, a
                                                                                         ld
ld
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
hl, #0x407
sub_0_286F
                                                                                        ld
                                                                                       call
                                                                                       and
ret
dec
                                                                                       1d
                                                                                                             (mario_alive_flag), a
                                            ret; End of function sub_0_2808
                                                    S U B R O U T I N E
                                            sub_0_281D:
                                                                                                                                                                                                                         ; CODE XREF: 0000:19B6 p
                                                                                                            b, #2
de, #0x10
iy, #unk_0_6680
                                                                                       ld
                                                                                                                                                                                                                         ; hammer character data
                                                                                       ld
                                                                                                                                                                                                                         ; CODE XREF: sub_0_281D+12|j
                                             loc_0_2826:
                                                                                                            0, 1(iy)
NZ, loc_0_2832
iy, de
loc_0_2826
                                                                                       bit
                                                                                        jp
add
                                                                                       djnz
                                                                                       ret
                                                                                                                                                                                                                         ; CODE XREF: sub_0_281D+D^j
                                            loc_0_2832:
                                                                                                            c, 5(iy)
h, 9(iy)
1, 0xA(iy)
sub_0_286F
                                                                                       ld
                                                                                        14
                                                                                       ld
call
and
                                                                                       ret
ld
ld
                                                                                                             (unk_0_6350), a
a, (unk_0_63B9)
                                                                                        sub
                                                                                       ld
ld
ld
                                                                                                              (unk_0_6354), a
                                                                                                             a, e
(unk_0_6353), a
(unk_0_6351), ix
                                                                                       ld
                                             ret; End of function sub_0_281D
                                             ; SUBROUTINE
                                             sub_0_2853:
                                                                                                                                                                                                                         ; CODE XREF: sub_0_1AC3+15Dfp
2853 FD 21 00 62
2857 3A 05 62
285A 285A C6 0C
285C 4F
285D 3A 10 60
286C 21 08 05
286C 21 08 05
286E 21 08 13
286B CB 88 3E
286B CD 88 3E
286E 286F
286F 286F
286F 286F 286F
2873 EF
2873 EF
2873 EF
2873 C7 62
2876 00 00
2880 028
2878 00 28
2878 00 28
2878 00 28
2878 00 28
2879 10 00 00
2880 01 29
2870 00 00
2880 028
2880 028
2880 028
2880 028
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2880 028
2880 028
2880 028
2880 028
2880 06 01
2881 06 0A
2882 07 12 00 67
2882 07 13 29
2883 78 2894 32 B9 63
2887 10 20 00
28890 06 01
2882 07 13 29
2884 06 01
2882 07 13 29
2884 06 01
2882 07 13 29
2883 78 2894 32 B9 63
2884 10 00 64
2884 00 01 28
2887 11 20 00
2888 00 11 20 00
2889 06 11 20 00
2880 06 01
2882 07 12 00 64
2884 06 01
2884 06 01
2884 06 01
2884 07 13 29
2885 07 13 29
2886 07 13 29
2886 07 13 29
2887 12 00 64
2887 12 00 64
2887 12 00 64
2888 07 13 29
2888 07 13 29
2888 07 13 29
2888 07 13 29
2888 07 13 29
2888 07 13 29
2888 07 13 29
2888 07 13 29
2888 07 13 29
2888 07 13 29
2888 07 14 00 66
2888 07 14 00 66
2888 07 14 00 66
2888 07 14 00 66
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2888 07 14 00 66
2888 07 14 00 66
2888 07 14 00 66
2888 07 14 00 66
2888 07 14 00 66
2888 07 14 00 66
2888 07 14 00 66
                                                                                       ld
ld
                                                                                                            iy, #mario_alive_flag
a, (mario_x)
                                             loc_0_285A:
                                                                                                            a, #0xC
c, a
a, (controller_in)
#3
h1, #0x508
Z, loc_0_286B
                                                                                        ld
                                                                                       1d
                                                                                       and
ld
                                                                                                                                                                                                                        ; left/right only
                                                                                                                                                                                                                        ; not left/right
                                                                                        jp
ld
                                                                                                             hl, #0x1308
                                                                                                                                                                                                                         ; CODE XREF: sub_0_2853+12 j
                                            loc_0_286B:
                                                                                       call
                                                                                                             sub 0 3E88
                                                                                       ret
                                             ; End of function sub\_0\_2853
                                             ; SUBROUTINE
                                                                                                                                                                                                                         ; CODE XREF: sub_0_2808+B^p; sub_0_281D+1E^p
                                            sub_0_286F:
                                                                                                            a, (level_type)
                                                                                       push
                                                                                                             0x28
                                                                                        rst
                                                                                                                                                                                                                         ; go!
                                                                                        .dw 0 .dw 11_check_hammer_hit
                                                                                                                                                                                                                         ; Jump table
                                                                                        .dw 11_check_hammer_hit
.dw 13_check_hammer_hit
.dw 14_check_hammer_hit
                                                                                        .dw 0
                                            11 check hammer hit:
                                                                                                                                                                                                                         ; DATA XREF: sub 0 286F+7 o
                                                                                                           hl b, #0xA a, b (unk_0_63B9), a de, #0x20; 'ix, #unk_0_6700 sub_0_2913 b, #5 a, b (unk_0_63B9), a e, #0x20; 'ix, #unk_0_6400 sub_0_2913 b, #1 a, b (unk_0_63B9), a (unk_0_63B9), a
                                                                                       pop
ld
ld
                                                                                                             hl
                                                                                       ld
ld
                                                                                       ld
call
ld
                                                                                       ld
ld
ld
ld
                                                                                                                                                                                                                        ; fireball character data
                                                                                       call
ld
ld
                                                                                                             (unk_0_63B9), a
                                                                                        1d
                                                                                                            e, #0
ix, #unk_0_66A0
sub_0_2913
                                                                                        ld
                                                                                       ld
call
                                                                                       ret
                                             ; End of function sub_0_286F
12_check_hammer_hit:
                                                                                                                                                                                                                         ; DATA XREF: sub_0_286F+9↑o; sub_0_3E88+9├o
                                                                                                             hl
                                                                                                            b, #5
a, b
(unk_0_63B9), a
                                                                                        ld
                                                                                                            (unk_0_63B9), a de, #0x20; ' ' ix, #unk_0_6400 sub_0_2913 b, #6 a, b
                                                                                       ld
ld
call
ld
                                                                                                                                                                                                                        ; fireball character data
28C1 06 06
28C3 78
28C4 32 B9 63
28C7 1E 10
28C9 DD 21 A0 65
28CD CD 13 29
                                                                                       ld
                                                                                                            a, b

(unk_0_63B9), a

e, #0x10

ix, #unk_0_65A0

sub_0_2913

b, #1

a, b
                                                                                       ld
ld
ld
                                                                                       call
28D0 06 01
28D2 78
28D3 32 B9 63
28D6 1E 00
                                                                                       ld
ld
                                                                                                             (unk_0_63B9), a
                                                                                       ld
ld
```

```
        28B08
        DD
        21
        AO
        66

        28D07
        CD
        13
        29
        28

        28E00
        CD
        13
        29
        28

        28E00
        CD
        13
        29
        28

        28E0
        CD
        12
        0
        6

        28E1
        78
        28
        28
        28
        28

        28E4
        12
        D
        0
        64
        28
        28
        28
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                                                                                          ix, #unk_0_66A0
sub_0_2913
                                                                         call
                                                                                                                                                                                     ; DATA XREF: sub_0_286F+B↑o
                                    13_check_hammer_hit:
                                                                                                                                                                                     ; sub_0_3E88+B-c
                                                                                         h1
b, #5
a, b
(unk_0_63B9), a
de, #0x20;''
ix, #unk_0_6400
sub_0_2913
b, #0xA
a, b
(unk_0_63B9), a
                                                                         1d
                                                                         ld
ld
                                                                                                                                                                                    ; fireball character data
                                                                         ld
                                                                         call
ld
ld
                                                                                           (unk_0_63B9), a
                                                                         ld
                                                                         ld
ld
call
                                                                                          e, #0x10
ix, #unk_0_6500
sub_0_2913
                                                                                                                                                                                     ; check if hammer hits a spring
                                                                         ret
                                                                                                                                                                                     ; DATA XREF: sub_0_286F+D\uparrowo ; sub_0_3E88+D\uparrowo
                                    14 check hammer hit:
                                                                                          h1
b, #7
a, b
(unk_0_63B9), a
de, #0x20;''
ix, #unk_0_6400
sub_0_2913
                                                                         pop
ld
                                                                         ld
ld
                                                                         ld
ld
call
                                                                                                                                                                                     ; fireball character data
                                                                         ret
                                                                      SUBROUTINE
                                                                                                                                                                                     ; CODE XREF: sub_0_286F+1F\uparrow p; sub_0_286F+2E\uparrow p ...
                                     sub_0_2913:
                                                                         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
a, c
5(ix)
                                                                         bit
                                                                         jp
ld
sub
                                                                                          NC, loc_0_2925
                                                                         jр
                                     loc_0_2925:
                                                                                                                                                                                    ; CODE XREF: sub_0_2913+D<sup>†</sup> j
                                                                         inc
                                                                         sub
jp
sub
                                                                                          C, loc_0_2930
0xA(ix)
                                                                                          NC, loc_0_294C
                                                                         jp
                                     loc_0_2930:
                                                                                                                                                                                     ; CODE XREF: sub_0_2913+14 j
                                                                                           a, 3(iy)
                                                                         ld
                                                                         sub
jp
neg
                                                                                           3(ix)
NC, loc_0_293B
                                     loc_0_293B:
                                                                                                                                                                                    ; CODE XREF: sub_0_2913+23 j
                                                                         sub
                                                                                          h
C, loc_0_2945
9(ix)
NC, loc_0_294C
                                                                          дį
                                                                          sub
                                                                         jp
                                     loc_0_2945:
                                                                                                                                                                                    ; CODE XREF: sub_0_2913+29 j
                                                                         1d
                                                                                          a, #1
ix
sp
                                                                         inc
                                                                                           sp
                                                                                                                                                                                     ; CODE XREF: sub_0_2913+6<sup>†</sup>j; sub_0_2913+1A<sup>†</sup>j ...
                                    loc 0 294C:
                                                                         add
                                                                                          ix, de
loc_0_2915
                                                                         djnz
                                                                         xor
                                                                         pop
ret
                                                                                           ix
                                    ; End of function sub_0_2913
                                     ; THE STATE OF SUBROUTINE STATE
                                     sub_0_2954:
                                                                                                                                                                                     ; CODE XREF: sub_0_1AC3+171\p
                                                                                          a, #0xB
0x30
sub_0_2974
(unk_0_6218), a
                                                                         ld
                                                                                                                                                                                     ; return if level bit not set
                                                                         rst
                                                                         call
ld
rrca
                                                                         rrca
                                                                                          (digital_snd_tmr_barrel_jump_priz), a
a, b
a
z
                                                                         ld
ld
                                                                         and
                                                                         ret
                                                                         cp
jp
ld
                                                                                          #1
Z, loc_0_296F
l(ix), #1
                                                                         ret
                                    loc_0_296F:
                                                                                                                                                                                    ; CODE XREF: sub 0 2954+131 j
                                                                        ld
                                                                                          0x11(ix), #1
                                     ret; End of function sub_0_2954
                                              S U B R O U T I N E
                                     sub_0_2974:
                                                                                                                                                                                     ; CODE XREF: sub_0_2954+31p
                                                                                         iy, #mario_alive_flag
a, (mario_x)
c, a
hl, #0x408
b, #2
de, #0x10
ix, #unk_0_6680
sub_0_2913
                                                                         ld
ld
ld
ld
                                                                          ld
                                                                         ld
                                                                                                                                                                                    ; hammer character data
                                    ; End of function sub_0_2974
```

File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
sub_0_2AD3:
                                                                                                                           a, (mario_y)
b, a
a, (mario_x)
#0x50; 'P'
Z, loc_0_2X+
#0x78; 'X'
Z, loc_0_2AF6
#0x08; 'U'
                                                                                                                                                                                                                                                     ; CODE XREF: sub 0 25F2+C1p
                                                                                                   ld
ld
                                                                                                   cp
jp
cp
                                                                                                   cp
jp
ret
                                                                                                                            Z, loc_0_2AF0
22AEA
22AEA
22AEA
22AEA
22AEA
22AEA
22AEA
22AEA
22AEO
22AFO
22BO2
22BO3
22BO2
22BO3

                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_2AD3+9<sup>†</sup>j
                                                                                                                            a, (unk_0_63A3)
loc_0_2B02
                                                                                                    ld
                                                                                                    qį
                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_2AD3+13<sup>†</sup>j
                                                                                                    ld
                                                                                                                            a, (unk_0_63A6)
loc_0_2B02
                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_2AD3+E<sup>†</sup>j
                                                                                                                           a, b
#0x80; 'C'
a, (unk_0_63A5)
NC, loc_0_2B02
a, (unk_0_63A4)
                                                                                                    cp
ld
                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_2AD3+1A^j
                                                                                                                                                                                                                                                       ; sub_0_2AD3+20↑j ...
                                                                                                                           a, b
(mario_y), a
(soft_sprite_ram+0x4C), a
sub_0_241F
hl, #mario_y
                                                                                                   add
ld
ld
                                                                                                   call
ld
dec
                                                                                                                            e
Z, loc_0_2B18
                                                                                                   jp
dec
jp
                                                                                                                            Z, loc_0_2B1A
                                                                                                    ret
                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_2AD3+3D1 j
                                                                                                   dec
                                                                                                                           (hl)
                                                                                                   ret
                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_2AD3+41^j
                                                                                                   inc
                                                                                                                            (hl)
                                                 ; End of function sub_0_2AD3
                                                             SUBROUTINE ....
                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_1AC3+142\p
                                                                                                   ld
call
call
                                                                                                                           ix, #mario_alive_flag
sub_0_2B29
sub_0_29AF
                                                                                                   xor
ld
                                                  ret; End of function sub_0_2B1C
; SUBROUTINE SUBROUTINE
                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_2B1C+4\partial p
                                                  sub_0_2B29:
                                                                                                                           a, (level_type)
                                                                                                   1d
                                                                                                                           NZ, loc_0_2B53
a, (mario_y)
                                                                                                    jp
ld
                                                                                                  ld
ld
add
ld
                                                                                                                           a, (mario_y)
h, a
a, (mario_x)
a, #7
l, a
                                                                                                   call
and
                                                                                                                           sub_0_2B9B
a
Z, loc_0_2B51
                                                                                                   jp
ld
                                                                                                   sub
                                                                                                                           NC, loc_0_2B74
a, c
#7
                                                                                                    jp
ld
2848 79

2849 D6 07

2848 32 05 62

2848 3E 01

2850 47

2851

2851

2851 2851
                                                                                                    sub
ld
                                                                                                                            (mario_x), a
                                                                                                    ld
                                                                                                                           a, #1
b, a
                                                                                                   1d
                                                 loc_0_2B51:
                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_2B29+15 j
                                                                                                  pop
ret
2B52 C9
2B53
2B53
2B53
                                                 loc 0 2B53:
                                                                                                                                                                                                                                                     ; CODE XREF: sub 0 2B29+41i
2B53 3A 03 62 2B56 D6 03 2B58 67 2B59 3A 05 62 2B5C C6 07 2B5F CD 9B 2B 2B62 FE 02
                                                                                                                           a, (mario_y)
#3
                                                                                                   sub
ld
ld
                                                                                                                           h, a
a, (mario_x)
a, #7
l, a
                                                                                                   add
ld
call
                                                                                                                           sub_0_2B9B
#2
                                                                                                   cp
jp
ld
                                                                                                                           #2
Z, loc_0_2B7A
a, d
a, #7
h, a
1, e
2B64 CA 7A 2B
2B67 7A
2B68 C6 07
                                                                                                   add
ld
ld
2B6A 67
2B6B 6B
2B6C CD 9B 2B
                                                                                                   call
                                                                                                                            sub_0_2B9B
2B6F A7
                                                                                                   and
2B70 C8
2B71 C3 7A 2B
2B74
                                                                                                    ret
                                                                                                                            loc_0_2B7A
                                                                                                    jр
2B74
2B74
2B74
2B74 3E 00
2B76 06 00
2B78 E1
2B79 C9
2B7A
                                                 loc_0_2B74:
                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_2B29+1C<sup>†</sup> j
                                                                                                                           a, #0
b, #0
hl
                                                                                                   ld
ld
2B7A
2B7A
                                                 loc_0_2B7A:
                                                                                                                                                                                                                                                      ; CODE XREF: sub_0_2B29+3B1j
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM

        2215
        D6
        02
        2212
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        <t
                                                                     sub
                                                                     cp
jp
ld
bit
                                                                                     c

C, loc_0_2C7B

a, (unk_0_6382)

1, a

NZ, loc_0_2C86

a, (unk_0_6380)

b, a

a, (gen_purpose_timer)

#0x1F
                                                                     jp
ld
ld
                                                                     ld
                                                                     and
                                   loc_0_2C2C:
                                                                                                                                                                            ; CODE XREF: sub_0_2C03+2D|j
                                                                     ср
                                                                                      Z, loc_0_2C33
loc_0_2C2C
                                                                     jp
djnz
                                   loc_0_2C33:
                                                                                                                                                                            ; CODE XREF: sub_0_2C03+2A1j
                                                                     ld
                                                                                      a, (bonus_timer_init_value)
                                                                     srl
                                                                                      C, loc_0_2C41
                                                                     jp
ld
                                                                                      a, (random_no+1)
                                                                     rrca
                                                                     ret
                                  loc_0_2C41:
                                                                                                                                                                            ; CODE XREF: sub 0 2C03+36 1
                                                                     call
                                                                                      rand
                                                                     and
                                                                                      NZ, loc_0_2C86
                                                                     qį
                                   loc_0_2C49:
                                                                                                                                                                            ; CODE XREF: sub_0_2C03+7B j
                                                                     ld
                                                                                      a, #1
                                                                                                                                                                            ; CODE XREF: sub 0 2C03+80-i
                                   loc 0 2C4B:
                                                                                      (unk_0_6382), a
                                                                                                                                                                            ; CODE XREF: sub 0 2C03+89-i
                                   loc_0_2C4F:
                                                                                      (unk_0_638F), a
a, #1
(unk_0_6392), a
                                                                     ld
ld
                                                                                      a, (unk_0_62B2)
                                                                     cp
ret
                                                                     sub
ld
ld
ld
                                                                                      (unk_0_62B2), a de, #0x20; ' ' h1, #unk_0_6400 b, #5
                                                                                                                                                                           ; fireball character data
                                                                     1d
                                   loc_0_2C69:
                                                                                                                                                                            ; CODE XREF: sub_0_2C03+6C|j
                                                                     ld
                                                                                      a, (hl)
                                                                     and
jp
add
djnz
                                                                                      a
Z, loc_0_2C72
hl, de
loc_0_2C69
                                   loc 0 2C72:
                                                                                                                                                                           ; CODE XREF: sub 0 2C03+681 j
                                                                                      a, (unk_0_6382)
#0x80 ; 'Ç'
(unk_0_6382), a
                                                                     ld
                                                                     or
ld
                                                                     ret
                                  loc_0_2C7B:
                                                                                                                                                                           ; CODE XREF: sub_0_2C03+15 j
                                                                     add
                                                                                      a, #2
                                                                                      c
Z, loc_0_2C49
a, #2
                                                                     jp
ld
                                                                                      loc_0_2C4B
                                                                                                                                                                            ; CODE XREF: sub_0_2C03+1D<sup>†</sup> j
                                   loc 0 2C86:
                                                                                                                                                                            ; sub_0_2C03+431j
                                                                     xor
ld
ld
                                                                                      a
(unk_0_6382), a
                                                                                      a, #3
loc_0_2C4F
                                   jp loc_
; End of function sub_0_2C03
                                   ; SUBROUTINE SUBROUTINE
                                                                                                                                                                            ; CODE XREF: 0000:1986 p
                                   sub_0_2C8F:
                                                                     ld
rst
rst
                                                                                      a, #1
0x30
0x10
                                                                                                                                                                            ; return if level bit not set ; return if mario not alive
                                                                                      a, (barrel_deployment)
                                                                     ld
rrca
                                                                                      C, loc_0_2D15
a, (unk_0_6392)
                                                                     jp
ld
                                                                     rrca
ret
ld
                                                                                      ix, #unk_0_6700
de, #0x20; ''
b, #0xA
                                                                     1d
                                                                     ld
                                                                                                                                                                           ; CODE XREF: sub_0_2C8F+26|j
                                   loc 0 2CA8:
                                                                     ld
                                                                                      a, 0(ix)
                                                                     rrca
jp
                                                                                      C, loc_0_2CB3
                                                                     rrca
                                                                                      NC, loc_0_2CB8
                                  loc_0_2CB3:
                                                                                                                                                                            ; CODE XREF: sub_0_2C8F+1D| j
                                                                                      ix, de
loc_0_2CA8
                                                                     add
                                  loc_0_2CB8:
                                                                                     (unk_0_62AA), ix
0(ix), #2
d, #0
a, #0xA
b
                                                                                                                                                                            ; CODE XREF: sub_0_2C8F+21 j
                                                                     ld
ld
ld
ld
sub
add
                                                                                      a, a
a, a
                                                                     add
                                                                     ld
ld
                                                                                      e, a
hl, #soft_sprite_ram+0x80
2CCB 19
2CCC 22 AC 62
                                                                     add
ld
                                                                                      hl, de
(unk_0_62AC), hl
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
2CCF 3E 01
                                                                a, #1
                                                                 (barrel_deployment), a
                                                   ld
                                                               (barrel_deployment
de, #0x501
queue_fg_vector_fn
hl, #unk_0_62B1
(hl)
NZ, loc_0_2CE6
a, #1
(unk_0_6386), a
                                                   ld
                                                                                                                               ; update_bonus_timer (tick)
                                                   call
ld
                                                   dec
                                                   ld
                                                                                                                               ; CODE XREF: sub_0_2C8F+4F^ j
                                                               a, (hl)
#4
                                                   ср
                                                   jp
ld
add
                                                                NC, loc_0_2CF6
hl, #soft_sprite_ram+0xA8
                                                                a, a
a, a
                                                   add
                                                   ld
ld
                                                                e, a
d, #0
hl, de
(hl), d
                                                   add
ld
                                                                                                                               ; CODE XREF: sub_0_2C8F+5A<sup>†</sup>j; sideways barrel sprite tile
                                                               7(ix), #0x15
8(ix), #0xB
0x15(ix), #0
a, (unk_0_6382)
                                                   ld
                                                   ld
                                                   ld
ld
                                                   rlca
                                                                NC, loc_0_2D15
                                                               7(ix), #0x19
8(ix), #0xC
0x15(ix), #1
                                                                                                                               ; sideways blue barrel sprite tile ; set blue palette for barrel
                                                   ld
ld
                                                                                                                               ; CODE XREF: sub_0_2C8F+8^j; sub_0_2C8F+77^j
                                                               hl, #byte_0_62AF (hl)
                                                   ld
                                                   dec
ret
ld
                                                                NZ
(hl), #0x18
                                                                a, (unk_0_638F)
                                                   ld
                                                   and
                                                                a
Z, loc_0_2D51
                                                   jp
ld
                                                               c, a
hl, #dk_throw_barrel_spr
a, (unk_0_6382)
                                                   ld
ld
rrca
                                                   jp
dec
                                                                C, loc_0_2D2F
                         loc_0_2D2F:
                                                                                                                               ; CODE XREF: sub_0_2C8F+9C1j
                                                               a, c
a, a
a, a
a, a
                                                   1d
                                                   add
add
add
                                                   ld
add
add
add
                                                                c, a
a, a
                                                                а, а
а, с
                                                   ld
ld
add
                                                               hl, de

copy_sprites_2_11_data

hl, #unk_0_638F

(hl)

NZ, loc_0_2D51

a, #1

(byte_0_62AF), a

a, (unk_0_6382)
                                                   call
ld
                                                   dec
                                                   jp
ld
                                                   14
                                                   rrca
                                                               C, loc 0 2D83
                                                   jp
                                                                                                                               ; CODE XREF: sub_0_2C8F+91<sup>†</sup>j; sub_0_2C8F+B3<sup>†</sup>j
                         loc_0_2D51:
                                                  ld
                                                               hl, (unk_0_62A8)
                         loc_0_2D54:
                                                                                                                               ; CODE XREF: sub_0_2C8F+FA| j
                                                   ld
                                                                a, (hl)
                                                               a, (n1)
ix, (unk_0_62AA)
de, (unk_0_62AC)
#0x7F; ' '
Z, loc_0_2D8C
c, a
#0x7F; ' '
ld
ld
                                                   ср
                                                  jp
ld
and
ld
                                                               #0X/F,
(de), a
a, 7(ix)
7, c
Z, loc_0_2D70
#3
                                                                                                                               ; sprite data X coord
; sprite tile #
                                                   ld
                                                   bit
                                                   jр
                                                   xor
                          loc_0_2D70:
                                                                                                                               ; CODE XREF: sub_0_2C8F+DC j
                                                                                                                               ; sprite tile # (barrel); sprite tile #
                                                               de
(de), a
7(ix), a
a, 8(ix)
de
                                                   ld
                                                   ld
ld
                                                   inc
ld
                                                                (de), a
                                                               hl
a, (hl)
de
                                                   inc
ld
                                                   inc
                                                   ld
                                                                (de), a
                                                                (unk_0_62A8), hl
                                                   ret
                         loc_0_2D83:
                                                                                                                               ; CODE XREF: sub_0_2C8F+BF<sup>†</sup> j
                                                               hl, #barrel_falling_data
(unk_0_62A8), hl
loc_0_2D54
                                                   1d
                                                   ld
                                                   jp
                          loc_0_2D8C:
                                                                                                                               ; CODE XREF: sub_0_2C8F+D0 j
                                                                hl, #barell_rolling_data (unk_0_62A8), hl
                                                   ld
                                                                1(ix), #1
a, (unk_0_6382)
                                                   1d
                                                   ld
                                                   rrca
                                                                C, loc_0_2DA5
1(ix), #0
2(ix), #2
                                                   jp
ld
                                                   ld
                         loc 0 2DA5:
                                                                                                                              ; CODE XREF: sub 0 2C8F+10Bf;
                                                                0(ix), #1
0xF(ix), #1
                                                   ld
                                                   ld
xor
2DAE DD 77 10
2DB1 DD 77 11
                                                                0x10(ix), a
0x11(ix), a
                                                   1d
                                                   14
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
2DB4 DD 77 12
2DB7 DD 77 13
2DBA DD 77 14
2DBD 32 93 63
2DC0 32 92 63
                                                                               0x12(ix), a
                                                                               0x13(ix), a
0x14(ix), a
(barrel_deployment), a
(unk_0_6392), a
                                                                ld
                                                               ld
ld
ld
2DC3 1A
2DC4 DD 77 03
2DC7 13
2DC8 13
                                                               ld
ld
inc
inc
                                                                               a, (de)
3(ix), a
                                                               inc
ld
ld
2DC9 13
                                                                               de
                                                                              de
a, (de)
5(ix), a
hl, #dk_normal_spr
copy_sprites_2_l1_data
hl, #soft_sprite_ram+0xB
c, #0xFC; '3'
0x38
2DCA 1A
2DCB DD 77 05
2DCE 21 5C 38
                                                                ld
2DD1 CD 4E 00
2DD4 21 0B 69
2DD7 0E FC
2DD9 FF
                                                               call
ld
ld
                                                                                                                                                              ; sprite #2, x coord
                                                                                                                                                              ; subtract 4 from x coord for 10 sprites
                                                               rst
                                ret
; End of function sub_0_2C8F
2DDA C9
2DDA
2DDA
2DDA
2DDB
2DDB
2DDB
2DDB
2DDB
2DDB
                                 ; SUBROUTINE SUBROUTINE
                                                                                                                                                              ; CODE XREF: 0000:1995 p
                                sub_0_2DDB:
2DDB 3E 0A
2DDD F7
                                                               ld
rst
                                                                               a, #0xA
0x30
                                                                                                                                                              ; return if level bit not set
2DDE D7
2DDF 3A 80 63
                                                                               0x10
                                                                                                                                                              ; return if mario not allive
                                                                rst
                                                                14
                                                                               a, (unk_0_6380)
2DE2 3C
2DE3 A7
2DE4 1F
                                                               inc
and
2DE4 1F
2DE5 47
2DE6 3A 27 62
2DE9 FE 02
2DEB 20 01
2DED 04
2DEE 2DEE 2DEE 2DEE 2DEE 3E FE
2DF1 2DF1 1F
2DF1 1F
2DF2 A7
                                                                rra
                                                               ld
ld
                                                                              b, a
a, (level_type)
#2
                                                                cp
jr
                                                                               NZ. loc 0 2DEE
                                                                inc
                               loc_0_2DEE:
                                                                                                                                                              ; CODE XREF: sub_0_2DDB+10 j
                                                                               a, #0xFE; '■'
                                                               ld
                                loc 0 2DF1:
                                                                                                                                                              ; CODE XREF: sub 0 2DDB+18-j
2DF1 1F
2DF2 A7
2DF3 10 FC
2DF5 47
2DF6 3A 1A 60
2DF9 A0
2DFA C0
2DFB 3E 01
2DFD 32 A0 63
2E00 32 9A 63
2E03 C9
                                                               rra
                                                               and
djnz
                                                                                a
loc_0_2DF1
                                                                              b, a
a, (gen_purpose_timer)
b
NZ
                                                                1d
                                                                14
                                                                and
                                                                ret
                                                                               a, #1
(unk_0_63A0), a
(unk_0_639A), a
                                                                1d
                                                                ld
ret
                                ; End of function sub_0_2DDB
                                ; SUBROUTINE
                                sub_0_2E04:
                                                                                                                                                              ; CODE XREF: 0000:198F1p
                                                                1d
                                                                               a, #4
0x30
                                                                                                                                                              ; return if level bit not set
                                                               rst
                                                                              0x10

0x10

ix, #unk_0_6500

iy, #soft_sprite_ram+0x80

b, #0xA
                                                               rst
ld
                                                                                                                                                              ; return if mario not alive
                                                               ld
                                                               ld
                                loc_0_2E12:
                                                                                                                                                              ; CODE XREF: sub_0_2E04+7D|j
; any active springs?
                                                                               a, 0(ix)
                                                               ld
                                                                rrca
                                                                               NC, loc_0_2EA7
                                                                                                                                                              ; no, skip
                                                                jp
ld
                                                                               a, (gen_purpose_timer)
                                                                               #0xF
NZ, loc_0_2E29
a, 1(iy)
#7
                                                                and
                                                                jp
ld
                                                                                                                                                              ; animate spring sprites
                                                                xor
2224 ED 07 01
2229
2229 DD 7E 0D
222C FE 04
222E31 DD 34 03
2234 DD 34 03
2234 DD 34 03
2234 DD 34 03
2234 DD 36 0F
223D 7E
223D 7E
223D 7E
223B FF 7F
223F FF 7F
223F FE 7F
223F DD 86 05
2244 23
2245 DD 77 05
2248 DD 77 05
2258 DD 76 02
2258 DD 76 02
2258 DD 60 02
2259 79
2255 DD 36 0D 04
2263 AF
2266 32 83 60
                                                                               l(iy), a
                                                               1d
                               loc_0_2E29:
                                                                                                                                                              ; CODE XREF: sub_0_2E04+1A<sup>†</sup> j
                                                                               a, 0xD(ix)
#4
Z, loc_0_2E84
3(ix)
                                                                ld
                                                                cp
jp
                                                                inc
                                                                inc
                                                                               3(ix)
                                                               ld
ld
                                                                               1, 0xE(ix)
h, 0xF(ix)
                                                                ld
ld
                                                                               a, (hl)
c, a
                                                                               #0x7F ; '
                                                                cp
jp
                                                                              #0x7F;
Z, loc_0_2E9C
hl
a, 5(ix)
5(ix), a
                                                                inc
                                                               add
ld
                                loc 0 2E4B:
                                                                                                                                                             ; CODE XREF: sub 0 2E04+A0-i
                                                                               0xE(ix), 1
0xF(ix), h
a, 3(ix)
#0xB7; 'À'
C, loc_0_2E6C
                                                               ld
ld
                                                               cp
jp
ld
                                                                               a, c
#0x7F ; ' '
                                                                ср
                                                               jp
ld
xor
                                                                               NZ, loc_0_2E6C
                                                                               0xD(ix), #4
                                                                                                                                                              ; stop timer
                                                                               a
(digital_snd_tmr_coin_spring), a
                                                                1d
2E67 3E 03 2E67 3E 03 2E67 3E 03 2E6C 2E6C 2E6C DD 7E 03 2E75 FD 77 03 2E78 2E78 11 10 00 2E78 2E78 DD 19 2E71 E0 19 2E81 10 8F 2E83 C9 2E83 C9 2E83 C9 2E84
                                                                ld
                                                                                                                                                              ; tmr=3
                                                                               a, #3
(digital_snd_tmr_kong_fall), a
                                                                                                                                                              ; CODE XREF: sub_0_2E04+52<sup>†</sup> j ; sub_0_2E04+58<sup>†</sup> j ...
                               loc 0 2E6C:
                                                                              a, 3(ix)
0(iy), a
a, 5(ix)
3(iy), a
                                                                                                                                                              ; x corrd to sprite data
                                                                ld
                                                                1d
                                                               ld
                                                                                                                                                              ; y coord to sprite data
                                                                                                                                                              ; CODE XREF: sub_0_2E04+A7|;
; sub_0_2E04+CD|;
; 16 bytes/sprite
; next spring data
                                loc_0_2E78:
                                                                              de, #0x10
ix, de
e, #4
iy, de
loc_0_2E12
                                                               add
ld
add
                                                                                                                                                              ; next sprite data
                                                               djnz
ret
2E84
2E84
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
2F8F DD 86 0F

2F92 77

2F93 DD 77 05

2F96 C9

2F97 2F97

2F97 3A 18 62

2F9A 0F

2F9B DO 36 09 06

2F9C DD 36 09 06

2F9C DD 36 00 03

2FA4 3A 07 62

2FA7 07

2FA8 3E 3C

2FA8 1F

2FA8 47

2FAB 47

2FAC 0E 07
                                                                                   a, 0xF(ix)
(hl), a
5(ix), a
                                                                   1d
                                                                  1d
                                 loc_0_2F97:
                                                                                                                                                                     ; CODE XREF: sub_0_2ED4+25 j
                                                                  ld
                                                                                   a, (unk_0_6218)
                                                                  rrca
                                                                  ret
ld
ld
ld
                                                                                   9(ix), #6
0xA(ix), #3
a, (mario_flipy_tile)
                                                                  rlca
ld
rra
ld
                                                                                   a, #0x3C ; '<'
                                                                                  b, a
c, #7
a, (bg_music)
(unk_0_6389), a
loc_0_2F7C
                                                                                                                                                                     ; hammer tile #
2FAC 0E 07
2FAE 3A 89 60
2FB1 32 89 63
2FB4 C3 7C 2F
                                                                  ld
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+791j
                                                                  ld
                                                                                   a, (unk_0_6395)
                                                                                   a
Z, loc_0_2F7C
                                                                   qį
                                  loc_0_2FBE:
                                                                                                                                                                     ; CODE XREF: sub 0 2ED4+831i
2FBE 3A 1A 60
2FC1 CB 5F
2FC3 CA 7C 2F
                                                                  ld
bit
                                                                                   a, (gen_purpose_timer)
                                                                                  3, a
Z, loc_0_2F7C
c, #1
loc_0_2F7C
                                                                   jp
ld
2FC6 0E 01
2FC8 C3 7C 2F
2FC8
2FC8
                                                                   jp
                                  ; End of function sub_0_2ED4
2FC8
2FCB
2FCB
2FCB
2FCB
2FCB
2FCB 3E 0E
2FCD 57
2FCE 21 B4 62
                                         SUBROUTINE ....
                                  sub_0_2FCB:
                                                                                                                                                                     ; CODE XREF: 0000:19BF p
                                                                                   a, #0xE
0x30
                                                                                                                                                                     ; return if level bit not set
                                                                  rst
ld
                                                                                  0x30
h1, #unk_0_62B4
(h1)
NZ
a, #3
(unk_0_62B9), a
(unk_0_6396), a
de, #0x501
DEFCE 21 B4 62
2FD1 35
2FD2 36
2FD3 3E 03
2FD3 3E 03
2FD8 32 96 63
2FD8 11 01 05
2FFD CD 9F 30
2FF1 3A B3 62
2FE4 77
2FE5 21 B1 62
2FE8 35
2FE9 C0
2FEA 3E 01
2FEC 32 86 63
2FEF C9
                                                                  ld
ld
ld
ld
                                                                                                                                                                    ; update_bonus_timer (tick)
                                                                                  ue, #Ux501
queue_fg_vector_fn
a, (unk_0_62B3)
(h1), a
h1, #unk_0_62B1
(h1)
                                                                  call
ld
ld
ld
                                                                  dec
                                                                                   NZ
a, #1
(unk_0_6386), a
                                                                  ret
ld
2FEC 32 86
2FEF C9
2FEF
2FEF
2FF0
2FF0
2FF0
2FF0
2FF0
7D
2FF0
7D
2FF0
7D
2FF0
7D
2FF1
0F
2FF2
0F
2FF4
66
1F
2FF7
7C
                                                                  ld
                                  ret; End of function sub_0_2FCB
                                  ; INTERESTINATION S U B R O U T I N E
                                                                                                                                                                     ; CODE XREF: draw_level_background+10<sup>†</sup>p; draw_level_background+3D<sup>†</sup>p ...; Y pos in bits [7:3]
                                 get_tilemap_addr_from_coords:
                                                                  ld
                                                                  rrca
                                                                  rrca
rrca
and
ld
ld
                                                                                                                                                                     ; shift to [4:0]
; store as LSB of screen address
; X pos in bits [7:3]
; mirror
2FF6 6F
2FF7 7C
2FF8 2F
2FF9 E6 F8
2FFB 5F
2FFC AF
2FFC 67
2FFE CB 13
3000 17
3001 CB 13
3003 17
3004 C6 74
3006 57
3007 19
                                                                                   1, a
a, h
                                                                  cpl
and
ld
                                                                                   #0xF8 ; '°'
                                                                                   e, a
                                                                  xor
ld
rl
                                                                  rla
                                                                  rl
rla
add
ld
                                                                                                                                                                     ; A=Xpos bits [7:6], E=[5:3] ; add start of VRAM
                                                                                   a, #0x74 ; 't'
                                                                                                                                                                         store
3000 37
3007 19
3008 C9
3008
3008
                                                                  add
ret
                                                                                   hl, de
                                                                                                                                                                      ; HL = screen address
                                 ; End of function get_tilemap_addr_from_coords
3009
3009
3009
                                  ; SUBROUTINE SUBROUTINE
3009
3009
3009 57
3009
                                                                                                                                                                     ; CODE XREF: 0000:18DF<sup>†</sup>p; sub_0_1AC3+1DB<sup>†</sup>p ...
                                 sub_0_3009:
                                                                  ld
                                                                                   d. a
                                                                  rrca
jp
ld
300A OF
300B DA 22 30
300E 0E 93
3011 OF
3011 OF
3012 D2 17 30
3015 OE 6C
3017 O7
3017 O7
3017 O7
3018 DA 31 30
3018 P9
301C E6 F0
301E 4F
301F C3 31 30
301E 4F
301F C3 31 30
3022 OE B4
3024 OF
3025 OF
3025 OF
3026 D2 2B 30
3029 OE 1E
3028
3028
3029 OE 1E
3029
3021 OE 31 30
3030 OE
3031 30
3031 79
                                                                                   C, loc_0_3022
c, #0x93; 'ô
                                                                  rrca
                                                                   rrca
                                                                                   NC, loc_0_3017
c, #0x6C; '1'
                                                                   jp
ld
                                  loc_0_3017:
                                                                                                                                                                     ; CODE XREF: sub_0_3009+91j
                                                                   rlca
                                                                                   C, loc_0_3031
a, c
#0xF0; '-'
                                                                  jp
ld
                                                                  and
ld
                                                                                   c, a
loc_0_3031
                                                                   qŗ
                                 loc_0_3022:
                                                                                                                                                                     ; CODE XREF: sub_0_3009+2 j
                                                                                   c, #0xB4 ; '-
                                                                  1d
                                                                  rrca
rrca
                                                                                   NC, loc_0_302B
                                                                   jp
ld
                                                                                   c, #0x1E
                                 loc_0_302B:
                                                                                                                                                                     ; CODE XREF: sub_0_3009+1Dfj
                                                                                   2, b
Z, loc_0_3031
                                                                  bit
                                 loc_0_3031:
                                                                                                                                                                     ; CODE XREF: sub_0_3009+F<sup>†</sup>j; sub_0_3009+16<sup>†</sup>j ...
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
3031
3032 0F
3033 0F
3034 4F
3035 E6 03
3037 B8
3038 79
303C 0F
303D 0F
                                                                               a, c
                                                               rrca
                                                               rrca
ld
and
                                                                               c, a
#3
                                                               cp
jp
ld
                                                                              NZ, loc_0_3031
a, c
                                                               rrca
                                                               rrca
and
                                                                               #3
#3
NZ
                                                                cp
ret
3043 CB 92
3045 15
3046 C0
3047 3E 04
                                                               res
dec
ret
ld
                                                                               2, d
d
NZ
                                                                               a. #4
3047 3E
3049 C9
3049
3049
304A
304A
304A
304A
304A
                                ret; End of function sub_0_3009
                                        SUBROUTINE ....
304A 304A 11 E0 FF 304A 304A 304D 3A 8E 63 3050 4F 3055 CD 64 30 3059 21 C0 75 305C CD 64 30 3059 21 E6 63 3062 35 3063 3063 3064 3064
                                wipe_ladder_as_kong_climbs:
                                                                                                                                                              ; CODE XREF: display_1UP+9D<sup>p</sup>
                                                                                                                                                              ; 0000:0B381p
; column offset
                                                                              de, #0xFFE0
a, (byte_0_638E)
c, a
b, #0
hl, #VRAM_start+0x200
copy_tile_from_next_column
hl, #VRAM_start+0x1C0
copy_tile_from_next_column
hl, #byte_0_638E
(hl)
                                                                ld
                                                                14
                                                               ld
ld
call
                                                               1d
                                                                call
ld
                                                               dec
                                ret; End of function wipe_ladder_as_kong_climbs
3064
3064
3064
3064
3064
3064
09
3064
3065
7E
                                 ; SUBROUTINE SUBROUTINE
                                                                                                                                                             ; CODE XREF: wipe_ladder_as_kong_climbs+C\u00e9 p ; wipe_ladder_as_kong_climbs+12\u00e9 p
                                copy_tile_from_next_column:
                                                                              hl, bc
a, (hl)
hl, de
(hl), a
                                                               ld
add
3066 19
3066 19
3067 77
3068 C9
3068
3068
3069
3069
                                                               ld
ret
                                ; End of function copy_tile_from_next_column
3069
3069 DF
3069
306A 2A CO 63
                                                                                                                                                             ; DATA XREF: display_1UP+2D\u00f1o; display_1UP+31\u00e1o ...; wait for 8-bit countdown
                                wait_and_inc_sequence:
                                                               rst
ld
                                                                               0x18
                                                                               hl, (ptr_current_sequence) (hl)
306A 2A CO 63
306D 34
306E C9
306F
306F
306F
306F
306F
306F 21 AF 62
306F
3072 34
3073 7E
3074 E6 07
                                                               inc
                                ; SUBROUTINE SUBROUTINE
                                animate_kong_climbing:
                                                                                                                                                             ; CODE XREF: display_1UP+95\p ; 0000:1732\p ...
                                                                              hl, #byte_0_62AF (hl) a, (hl) #7
                                                               inc
ld
3074 E6 07
3076 C0
3076 C1 0B 69
307A 0E FC
307D 0E 81
307F 21 09 69
3082 CD 96 30
3085 21 1D 69
3088 CD 96 30
308B CD 57 00
308B CD 57 00
308B E6 80
3090 21 2D 69
3090 21 2D 69
3093 AE
3094 77
3095 C9
                                                               and
                                                                              #7
NZ
h1, #soft_sprite_ram+0xB
c, #0xFC; ''3'
0x38
c, #0x81; 'ŭ'
h1, #soft_sprite_ram+9
flip_2_tiles
h1, #soft_sprite_ram+0xlD
flip_2_tiles
rand
                                                               ret
ld
ld
                                                                                                                                                             ; sprite #2, x coord
                                                               rst
ld
ld
call
                                                                                                                                                             ; sprite #2, flipy & code
                                                               ld
call
                                                                                                                                                             ; sprite #7, flipy & code
                                                                                                                                                             ; Pauline kicking legs
                                                                               rand
#0x80 ; 'Ç'
                                                                and
                                                               ld
xor
ld
                                                                               hl, #soft_sprite_ram+0x2D (hl) (hl), a
                                                                                                                                                             ; sprite #11, flipy & code (Pauline)
                                                                ret
3095
3095
                                ; End of function animate_kong_climbing
3096
3096
3096
3096
3096
                                 ; SUBROUTINE SUBROUTINE
                                                                                                                                                             ; CODE XREF: animate_kong_climbing+13\uparrowp ; animate_kong_climbing+19\uparrowp
                               flip_2_tiles:
3096
3096 06 02
3096
3098
3098
3098 79
3099 AE
309A 77
309B 19
                                                               ld
                                                                               b, #2
                                                                                                                                                             ; CODE XREF: flip_2_tiles+6|j
                                loc 0 3098:
                                                                              a, c
(h1)
(h1), a
h1, de
loc_0_3098
                                                                ld
                                                               xor
ld
                                                                add
309C 10 FA
309E C9
309E
309E
                                djnz loc_0_
ret
; End of function flip_2_tiles
309F
309F
309F
309F
309F
                                ; SUBROUTINE
309F
309F E5
309F
                                queue_fg_vector_fn:
                                                                                                                                                             ; CODE XREF: check_coin_inserted+3B\uparrowp; 0000:01F7\uparrowp ...
                                                               push
ld
ld
                                                                              n1
hl, #fg_vector_fn_params
a, (fg_fn_queue_tail)
l, a
7, (hl)
Z, loc_0_30BB
(hl), d
30A0 21 C0 60
30A3 3A B0 60
30A6 6F
30A6 6F
30A7 CB 7E
30A9 CA BB 30
30AC 72
30AD 2C
30AE 73
30AF 2C
30B0 7D
30B1 FE CO
30B3 D2 B8 30
30B6 3E CO
                                                                                                                                                              ; point to end of queue
                                                                ld
                                                                                                                                                             ; empty entry?
; no, exit
; vector number
                                                               bit
                                                                jp
ld
                                                                inc
                                                                               (hl), e
                                                               ld
                                                                                                                                                             ; msg number
                                                               inc
ld
                                                                              a, 1
#0xC0; 'L'
NC, loc_0_30B8
a, #0xC0; 'L'
                                                                                                                                                             ; new tail
                                                               cp
jp
ld
                                                                                                                                                             ; wrap?
; no, skip
30B6 3E C0
30B8
30B8
30B8 32 B0 60
                               loc 0 30B8:
                                                                                                                                                             ; CODE XREF: queue_fg_vector_fn+14<sup>†</sup>j
; store tail
                                                               14
                                                                               (fg_fn_queue_tail), a
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
30BB
30BB E1
30BC C9
30BC
30BC
30BD
30BD
30BD
30BD
                            loc 0 30BB:
                                                                                                                                              ; CODE XREF: queue_fg_vector_fn+A1 j
                                                        pop
ret
                                                                      hl
                             ; End of function queue_fg_vector_fn
                                     SUBROUTINE ....
30BD
30BD 21 50 69
30BD
                                                                                                                                              ; CODE XREF: 0000:12A3\p; 0000:1615\p; sprite #20 (kongs legs)
                            hide_object_sprites:
                                                                       hl, #soft_sprite_ram+0x50
b, #2
zero_sprite_y_xB
1, #0x80 ; 'Ç'
b, #0xA
30C0 06 02
30C2 CD E4 30
30C5 2E 80
30C7 06 0A
                                                         1d
                                                                                                                                              ; 2 sprites to hide
                                                         call
ld
                                                                                                                                              ; sprite #32 (springs); 10 sprites to hide
                                                         ld
                                                                       zero_sprite_y_xB
1, #0xB8; '@'
b, #0xB
30C9 CD E4 30
30CC 2E B8
30CE 06 0B
                                                         call
ld
ld
                                                                                                                                             ; sprite #46 (cement pies & ???)
; 11 sprites to hide
30D0 CD E4 30
30D3 21 0C 6A
30D6 06 05
30D8 C3 E4 30
30D8
                             call zero_sprite_y_xB
ld hl, #soft_sprite_ram+0x10C
ld b, #5
jp zero_sprite_y_xB
; End of function hide_object_sprites
                                                                                                                                              ; sprite #67 (hat, purse, umbrella & hammersx2); 5 sprites to hide
30D8
30D8
30DB
30DB
30DB
30DB
30DB
30DB
30DB 21 4C 69
30DE 36 00
30E0 2E 58
30E2 06 06
30E2 30E2
30E2
30E4
30E4
30E4
30E4
                             ; BURNESS SUBROUTINE
                                                                                                                                              ; CODE XREF: 0000:12DF\uparrowp; sprite #19 (Y)
                             sub_0_30DB:
                                                                       hl, #soft_sprite_ram+0x4C
(hl), #0
1, #0x58; 'X'
b, #6
                                                         ld
ld
ld
                                                                                                                                              ; hide
                             ; End of function sub_0_30DB
                             ; SUBROUTINE SUBROUTINE
; CODE XREF: hide_object_sprites+5\uparrowp ; hide_object_sprites+C\uparrowp ...
                             zero_sprite_y_xB:
                                                         ld
                                                                       a, 1
                             loc_0_30E5:
                                                                                                                                              ; CODE XREF: zero_sprite_y_xB+6|j
                                                                       (h1), #0
a, #4
1, a
loc_0_30E5
                                                         ld
                                                         add
                                                         ld
djnz
                             ; End of function zero_sprite_y_xB
                             ; SUBROUTINE SUBROUTINE
                                                                                                                                              ; CODE XREF: 0000:198C1p
                             sub_0_30ED:
                                                         call
call
                                                                       sub_0_30FA
sub_0_313C
sub_0_31B1
                                                                                                                                              ; spawn fireballs?
; process fireball AI?
; add fireballs to sprite display
                                                                       sub 0 34F3
                                                         call
                                                         ret
30F9
30F9
                             ; End of function sub_0_30ED
30FA
30FA
30FA
30FA
30FA
30FA
                             ; SUBROUTINE CONTINE
                             sub_0_30FA:
                                                                                                                                              ; CODE XREF: sub 0 30ED p
30FA 3A 80 63
30FD FE 06
30FD FE 06
30FF 38 02
3101 3E 05
3103
3103 FF
3106 10 31
3106 10 31
3106 26 31
3106 26 31
3100 3A 1A 60
3110 3A 1A 60
3111 5E 01
3117 C8
3118 33
3119 33
3111 C9
3118 31
3118 31
3118 31
3118 31
3118 31
3118 31
3118 31
3118 31
3118 31
3118 31
3118 31
3118 31
3118 31
3118 31
3118 31
3119 33
3111 69
31118 31
3118 31
3119 33
31119 33
3111 69
31118 31
3118 31
3119 33
3110 33
3110 33
3110 33
3110 33
3110 33
3111 69
3111 60 01
3112 60 07
3120 FE 05
3122 F8
3123 33
3124 33
                                                                       a, (unk_0_6380)
#6
C, loc_0_3103
                                                         14
                                                         ср
                                                         jr
ld
                                                                       a, #5
                             loc_0_3103:
                                                                                                                                              ; CODE XREF: sub_0_30FA+5 j
                                                         rst
                                                                       0x28
                                                                                                                                              ; go!
                                                         .dw loc_0_3110
.dw loc_0_3110
.dw loc_0_311B
.dw loc_0_3126
.dw loc_0_3126
.dw loc_0_3131
                                                                                                                                              ; Jump table
                                                                                                                                              ; DATA XREF: sub_0_30FA+A<sup>†</sup>o; sub_0_30FA+C<sup>†</sup>o
                             loc_0_3110:
                                                                       a, (gen_purpose_timer) #1 #1 Z
                                                         1d
                                                         and
cp
ret
                                                         inc
inc
                                                                       sp
sp
                                                         ret
                             loc_0_311B:
                                                                                                                                              ; DATA XREF: sub_0_30FA+E↑o
                                                                       a, (gen_purpose_timer)
#7
                                                         ld
                                                         and
                                                         cp
ret
                                                                       #5
M
                                                         inc
                                                                       sp
                                                         inc
; DATA XREF: sub_0_30FA+10\uparrow o ; sub_0_30FA+12\uparrow o
                             loc 0 3126:
                                                                       a, (gen_purpose_timer)
#3
                                                         ld
                                                         and
                                                         cp
ret
                                                                       #3
M
                                                                       sp
                                                         inc
                                                         inc
                                                                       sp
                                                                      a, (gen_purpose_timer)
#7
#7
M
                             loc_0_3131:
                                                                                                                                              ; DATA XREF: sub_0_30FA+14 o
                                                         ld
and
                                                         cp
ret
                                                         inc
inc
                                                                       sp
                                                                       sp
                            ret; End of function sub_0_30FA
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
                                                                                                              a, (level_type) #1
32BD 3A 27 62
32C0 FE 01
32C2 CA CE 32
32C5 FE 02
32C7 CA D2 32
32CA CD B9 34
32CD C9
32CE 32CE
                                                                                        cp
jp
cp
                                                                                                             #1
Z, loc_0_32CE
#2
Z, loc_0_32D2
sub_0_34B9
                                                                                        jp
call
loc 0 32CE:
                                                                                                                                                                                                                            ; CODE XREF: sub 0 32BD+511
                                                                                        call
ret
                                                                                                           sub_0_342C
                                             loc_0_32D2:
                                                                                                                                                                                                                            ; CODE XREF: sub_0_32BD+A^jj
                                                                                        call
                                                                                                           sub_0_3478
                                                                                        ret
                                             ; End of function sub_0_32BD
                                                     SUBROUTINE
32D6
32D6
32D6
32D6
32D6
32D6 DD 7E 1C
                                            sub 0 32D6:
                                                                                                                                                                                                                           ; CODE XREF: sub 0 3202+7C1p
                                                                                                             a, 0x1C(ix)
#0
NZ, loc_0_32FD
a, 0x1D(ix)
#1
                                                                                        ld
32D9 FE 00
32DB C2 FD 32
32DE DD 7E 1D
32E1 FE 01
                                                                                         ср
                                                                                         jp
ld
                                                                                        cp
jp
ld
ld
32E1 FE 01
32E3 C2 0B 33
32E6 DD 36 1D 00
32EA 3A 05 62
                                                                                                             MI, loc_0_330B

0x1D(ix), #0

a, (mario_x)

b, 0xF(ix)

        32ED DD 76
        60 P

        32F0 DD 36
        1C FF

        32F8 DD 36
        1C FF

        32FD DD 35
        1C G

        3300 CZ F8 B 32
        3300

        3300 DD 36 DD 37
        1C G

        330B CD 0F 33
        330F DD 36 
                                                                                        1d
                                                                                         sub
                                                                                                             C, loc_0_3303
0x1C(ix), #0xFF
                                                                                        jp
ld
                                                                                                                                                                                                                            ; CODE XREF: sub_0_32D6+2A|j
                                             loc_0_32F8:
                                                                                        ld
                                                                                                             0xD(ix), #0
                                                                                        ret
                                                                                                                                                                                                                            ; CODE XREF: sub 0 32D6+511
                                             loc 0 32FD:
                                                                                                               0x1C(ix)
                                                                                        dec
                                                                                                              NZ, loc_0_32F8
                                                                                        jp
                                            loc_0_3303:
                                                                                                                                                                                                                           ; CODE XREF: sub 0 32D6+1Bfj
                                                                                                              0x19(ix), #0
0x1C(ix), #0
                                                                                                                                                                                                                           ; CODE XREF: sub_0_32D6+Dfj
                                            loc_0_330B:
                                                                                        call
                                                                                                              sub_0_330F
                                            ret; End of function sub_0_32D6
                                             ; SUBROUTINE SUBROUTINE
                                                                                                                                                                                                                            ; CODE XREF: sub_0_3202+1C\(^1\)p ; sub_0_32D6+35\(^1\)p
                                             sub_0_330F:
                                                                                                             a, 0x16(ix)
#0
                                                                                        1d
                                                                                        cp
jp
ld
                                                                                                              #0
NZ, loc_0_3332
0x16(ix), #0x2B; '+'
0xD(ix), #0
                                                                                        ld
ld
                                                                                                               a, (random_no)
                                                                                        rrca
                                                                                                             NC, loc_0_3332
a, 0xD(ix)
#1
Z, loc_0_3336
0xD(ix), #1
                                                                                        jp
ld
                                                                                                                                                                                                                            ; CODE XREF: sub_0_330F+5<sup>†</sup>j; sub_0_330F+14<sup>†</sup>j ...
                                            loc_0_3332:
                                                                                                              0x16(ix)
                                                                                        dec
                                                                                        ret
                                                                                                                                                                                                                           ; CODE XREF: sub 0 330F+1C1i
                                             loc_0_3336:
                                             ld 0xD(ix), #2 jp loc_0_3332 ; End of function sub_0_330F
                                                    SUBROUTINE
                                                                                                             a, 0xD(ix)
#8
                                             sub_0_333D:
                                                                                                                                                                                                                           ; CODE XREF: sub_0_3202+2E\p
                                                                                                             z, loc_0_3371
#4
                                                                                        ср
                                                                                        jp
cp
jp
call
                                                                                                              Z, loc_0_338A
sub_0_33A1
                                                                                                             a, 0xF(ix)
a, #8
d, a
a, 0xE(ix)
bc, #0x15
                                                                                        ld
add
ld
ld
                                                                                        ld
call
                                                                                                              bc, #0x15
sub_0_236E
                                                                                                             a
Z, loc_0_3399
0x1F(ix), b
a, (mario_x)
b, a
a, 0xF(ix)
                                                                                        and
                                                                                        jp
ld
ld
                                                                                        ld
ld
                                                                                        sub
ret
                                                                                                               0xD(ix), #4
                                                                                        ld
                                            loc_0_3371:
                                                                                                                                                                                                                           ; CODE XREF: sub 0 333D+51 j
                                                                                                             a, 0xF(ix)
a, #8
b, 0x1F(ix)
                                                                                        1d
                                                                                        add
ld
                                                                                        cp
ret
ld
                                                                                                              NZ
0xD(ix), #0
a, 0x19(ix)
#2
                                                                                        1d
                                                                                        cp
ret
ld
                                                                                                              NZ
0x1D(ix), #1
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
loc_0_338A:
                                                                                                                        ; CODE XREF: sub 0 333D+A1i
                                                            a, 0xF(ix)
a, #8
b, 0x1F(ix)
                                                add
ld
                                                cp
ret
                                                             NZ
                                                            0xD(ix), #0
                                                 ret
                         loc_0_3399:
                                                                                                                         ; CODE XREF: sub_0_333D+20 j
                                                ld
                                                             0x1F(ix), b
                                                1d
                                                             0xD(ix), #8
                         ; End of function sub_0_333D
                         ; SUBROUTINE
                         sub_0_33A1:
                                                                                                                         ; CODE XREF: sub_0_333D+D<sup>†</sup>p
                                                            a, #7
0x30
                                                rst
ld
                                                                                                                         ; return if level bit not set
                                                            a, 0xF(ix)
#0x59; 'Y'
                                                cp
ret
                                                 inc
                                                             sp
                                                 inc
                        ret; End of function sub_0_33A1
                              SUBROUTINE
sub_0_33AD:
                                                                                                                         ; CODE XREF: sub_0_3202+39 p
                                                            a, 0xD(ix)
#1
Z, loc_0_33D9
a, 7(ix)
#0x7F; ''
7(ix), a
                                                ld
                                                 ср
                                                jp
ld
and
ld
                                                                                                                         ; reset hflip
                                                                                                                         ; sprite tile #
                                                dec
                                                             0xE(ix)
                        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
                                                1d
                                                cp
ret
ld
                                                            #1
NZ
h, 0xE(ix)
1, 0xF(ix)
b, 0xD(ix)
sub_0_2333
0xF(ix), 1
33C9 DD 66 0E
33CC DD 66 0E
33CC DD 66 0E
33CF DD 46 0D
33D2 CD 33 23
33D5 DD 75 0F
33D8 C9
33D8 S3D9
33D9 S3D9
33D9 DD 7E 07
33DC F6 80
33DE DD 77 07
33E1 DD 34 0E
33E4 C3 C0 33
33E7
33E7
33E7
33E7
33E7
                                                ld
ld
call
                                                ld
                                                ret
                         ; End of function sub_0_33C3
                                                                                                                         ; CODE XREF: sub_0_33AD+5<sup>†</sup>j; sprite tile #; set hflip
                         loc_0_33D9:
                                                            a, 7(ix)
#0x80; 'Ç'
7(ix), a
0xE(ix)
                                                 ld
                                                or
ld
inc
                                                             loc_0_33C0
                                                jр
                               SUBROUTINE
sub_0_33E7:
                                                                                                                         ; CODE XREF: sub_0_3202+8F1p
                                                            sub_0_3409
a, 0xD(ix)
#8
                                                call
ld
                                                cp
jp
ld
                                                            NZ, loc_0_3405
a, 0x14(ix)
                                                and
                                                jp
ld
dec
                                                            NZ, loc_0_3401
0x14(ix), #2
0xF(ix)
                                                ret
3401
3401
3401 DD 35 14
3404 C9
3405
3405
3405
                         loc_0_3401:
                                                                                                                         ; CODE XREF: sub_0_33E7+F<sup>†</sup>j
                                                            0x14(ix)
                                                dec
                                                ret
3405
3405 DD 34 0F
3408 C9
3408
3408
3408
3409
3409
3409
3409
3409
3409
3409
3400
2 28 34
3400
340D C2 28 34
3410 DD 36 15 02
3414 DD 34 07
3417 DD 7E 07
341A E6 0F
341E C0
341F DD 7E 07
341A E0 0F
341E C0
341F DD 7F 07
3422 E0 02
3424 DD 77 07
3428
3428
3428
3428
3428 DD 35 15
                                                                                                                         ; CODE XREF: sub_0_33E7+8 j
                        loc 0 3405:
                                                inc
ret
                                                             0xF(ix)
                         ; End of function sub_0_33E7
                         ; SUBROUTINE
                                                                                                                         ; CODE XREF: sub_0_33AD+13\dagger p ; sub_0_33E7\dagger p
                        sub_0_3409:
                                                            a, 0x15(ix)
                                                1d
                                                 and
                                                            a
NZ, loc_0_3428
0x15(ix), #2
7(ix)
a, 7(ix)
#0xF
#0xF
                                                 jp
ld
                                                                                                                         ; inc fireball animation
                                                inc
                                                ld
and
                                                cp
ret
ld
                                                                                                                         ; last animation frame?
                                                            NZ
a, 7(ix)
#2
7(ix), a
                                                                                                                         ; no, return
                                                                                                                         ; reset animation frame
                                                 xor
ld
                                                ret
                        loc 0 3428:
                                                                                                                         ; CODE XREF: sub 0 3409+41 j
3428 DD 35 15
                                                dec
                                                            0x15(ix)
342B C9
342B
342B
342B
342C
                         ret; End of function sub_0_3409
```

```
.dw aYOUR_NAME_WAS_REGISTERED
                                                                .dw aINSERT_COIN
.dw aPLAYER_COIN
.dw 0x1D
.dw aCOPYRIGHT_1981
.db 2, 0xEF, 0x6D, 0x20, 0x6D, 2, 0xDF, 0x8E, 0x10, 0x8E
.db 2, 0xEF, 0xAF, 0x20, 0xAF, 2, 0xDF, 0xD0, 0x10, 0xD0
.db 2, 0xEF, 0xF1, 0x10, 0xF1, 0, 0x53, 0x18, 0x53, 0x54
.db 0, 0x63, 0x18, 0x63, 0x54, 0, 0x93, 0x38, 0x93, 0x54
.db 0, 0x83, 0x54, 0x83, 0xF1, 0, 0x93, 0x54, 0x93, 0x54
380D OD 20 OD 02+
380D DF 8E 10 8E+
380D 02 EF AF 20+
380D AF 02 DF D0+
                                                                 .db 0xAA
380D 10 D0 02 EF+
             DO 02 EF+ ...db 0xAA
07D 8C bonus_graphic_tiles:.db 0x8D, 0x7D, 0x8C
00 7C ...db 0x6F, 0, 0x7C
...db 0x6E, 0, 0x7C
...db 0x6E, 0, 0x7C
...db 0x6D, 0, 0x7C
...db 0x6C, 0, 0x7C
...db 0x6C, 0, 0x7C
...db 0x8F, 0x7F, 0x8E
                                                                                                                                                              ; DATA XREF: 0000:064D10
3850 6E 00 7C
3853 6D 00 7C
3856 6C 00 7C
3859 8F 7F 8E
385C 47 27 08
                                                                                                                                                             ; DATA XREF: animate_kong_and_pauline+74 o
385C 2F A7 08 50+
385C 3B 25 08 50+
385C 00 70 08 48+
385C 3B 23 07 40+
                                                                                                                                                              ; display_1UP+CB<sup>†</sup>o .
                                                                .db 0x2F, 0xA7, 8, 0x50
.db 0x3B, 0x25, 8, 0x50
.db 0, 0x70, 8, 0x48
                                                               .db 0, 0x70, 8, 0x48
db 0x38, 0x23, 7, 0x40
.db 0x46, 0xA9, 8, 0x44
.db 0, 0x70, 8, 0x48
.db 0x30, 0x29, 8, 0x44
.db 0, 0x70, 8, 0x48
.db 0, 0x70, 0xA, 0x48
.db 0, 0x70, 0xA, 0x48
.db 0x6F, 0x10, 9, 0x23
.db 0x6F, 0x11, 0xA, 0x33
385C 46 A9 08 44+
385C 00 70 08 48+
385C 30 29 08 44+
385C 00 70 08 48+
385C 00 70 0A 48
385C 385C
3884 6F 10 09 23+pauline_spr:
3884 6F 11 0A 33
388C 50 34 08 3C dk_climbing_spr:.db 0x50, 0x34, 8, 0x3C 388C
                                                                                                                                                             ; DATA XREF: display_1UP+6D\uparrowo ; 0000:168B\uparrowo ...
38CB 01 01 01 01+ .db 1, 1, 1, 1, 0x7F
38DC 04 7F F0 10+draw_data_bend_girders_2:.db 4, 0x7F, 0xF0, 0x10, 0xF0, 2, 0xDF, 0xF2, 0x70, 0xF8
38DC F0 02 DF F2+ ; DATA XREF: 0000:0B91†0
38DC 70 F8 02 6F+ .db 2, 0x6F, 0xF8, 0x10, 0xF8, 0xAA. 4. 0xDF 0xD0 0x90
                                                              .db 2, 0x6F, 0xF8, 0x10, 0xF8, 0xAA, 4, 0xDF, 0xD0, 0x90 .db 0xD0, 2, 0xDF, 0xDC, 0x20, 0xD1, 0xAA, 0xFF, 0xFF
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst
39AA 7F 00 FF 00+
39AA 00 01 00 01+
.db 0, 0xFF, 0, 0, 1, 0, 1, 1, 2, 2, 2, 2, 3, 3, 3
39C3 1E 4E BB 4C+barell_rolling_data:.db 0x1E, 0x4E, 0xBB, 0x4C, 0xD8, 0x4E, 0x59, 39C3 D8 4E 59 4E+
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 ;
                                                                                                                                                                                                                                                                          3, 0x7F
0x4E, 0x7F
DATA XREF: sub_0_2C8F+FD↑o
DATA XREF: sub_0_2C8F+F4↑o
DATA XREF: animate_kong_and_pauline+43↑o
0000:0816†o
                                                                                                                                                                                                                                                                      ; DATA XREF: animate kong and pauline+4A10
                                                                                                                                                                                                                                                                   ; DATA XREF: 0000:18701o
                                                                                                                                                                                                                                                                      ; DATA XREF: 0000:17D9\dagger o ; DATA XREF: 0000:17E5\dagger o ; DATA XREF: 0000:17F1\dagger o
                                                                                                                                                                                                                                                                            DATA XREF: 0000:17FD to
                                                                                                                                                                                                                                                                            DATA XREF: 0000:18A5 of DATA XREF: 0000:095F of O
                                                                                                                                                                                                                                                                            DATA XREF: 0000:179910
                                                                                                                                                                                                                                                                            0000:1947†o
3A8C El E0 DF DE+

3A8C DD DD DC DC+

.db 0xDD, 0xDC, 0xDC, 0xDC, 0xDC, 0xDC, 0xDC, 0xDD, 0xDD

3A8C DD DD DC DC+

.db 0xDD, 0xDF, 0xE0, 0xE1, 0xE2, 0xE3, 0xE4, 0xE5, 0xE7

3A8C DD DD DC DC+

.db 0xDE, 0xDF, 0xE0, 0xE1, 0xE2, 0xE3, 0xE4, 0xE5, 0xE7

3A8C DD DD DE DF+

.db 0xE9, 0xE8, 0xE0, 0xF0, 0xAA

3AAC 80 7B 78 76+cement_fireball_data:.db 0x80, 0x78, 0x78, 0x76, 0x74, 0x73, 0x72, 0x71, 0x70

.3AAC 77 73 72 71+

.3AAC 70 70 6F 6F+

.db 0x70, 0x6F, 0x6F, 0x6F, 0x70, 0x70, 0x71, 0x72, 0x73

3AAC 6E 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 EB F0 DB A0+

.db 0xF0, 0xDB, 0xA0, 0xE6, 0xC8, 0xC8, 0xC8

3AD4 1B C8 23 A0+rivet_fireball_start_points:.db 0x1B, 0xC8, 0x23, 0xA0, 0x2B, 0x78, 0x12, 0xF0, 0x1B

3AD4 1B C8 23 A0+

.db 0xC8, 0x23, 0xA0, 0x12, 0xF0, 0x1B, 0xC8

3AB4 38 02 9F 54+

.DATA XREF: sub_0_34B9+34\[0]

.DATA XREF: sub_0_34B9+34\[
                                                                                                         ; DATA XREF: 0000:
; sub_0_2441+1910
.db 2, 0xDF, 0x58, 0xA0, 0x55, 2, 0xEF, 0x6D, 0x20, 0x79
.db 2, 0xDF, 0x9A, 0x10, 0x8E, 2, 0xEF, 0xAF, 0x20, 0xBB
.db 2, 0xDF, 0xDC, 0x10, 0xD0, 2, 0xFF, 0xF0, 0x80, 0xF7
.db 2, 0x7F, 0xF8, 0, 0xF8, 0, 0xCB, 0x57, 0xCB, 0x6F
.db 0, 0xCB, 0x99, 0xCB, 0xB1, 0, 0xCB, 0xDB, 0xCB, 0xF3
.db 0, 0x63, 0x18, 0x63, 0x54, 1, 0x63, 0xD5, 0x63, 0xF8
.db 0, 0x33, 0x78, 0x33, 0x54, 1, 0x63, 0xD5, 0x63, 0xF8
.db 0, 0x53, 0x18, 0x53, 0x54, 1, 0x53, 0x98, 0x33, 0xD2
.db 0, 0x53, 0x18, 0x53, 0x54, 1, 0x53, 0x92, 0x53, 0xB8
.db 0, 0x5B, 0x76, 0x5B, 0x60, 0x73, 0xB6, 0x73, 0xD6
.db 0, 0x5B, 0x76, 0x5B, 0x92, 0, 0x73, 0xB6, 0x73, 0xD6
.db 0, 0x83, 0x95, 0x83, 0xB5, 0, 0x93, 0x38, 0x93, 0x54
.db 1, 0xBB, 0x70, 0xBB, 0x98, 1, 0x6B, 0x54, 0x6B, 0x75
.db 0xAA
3AE4 10 54 02 DF+
3AE4 58 A0 55 02+
3AE4 EF 6D 20 79+
3AE4 02 DF 9A 10+
3AE4 8E 02 EF AF+
3AE4 20 BB 02 DF+
3AE4 DC 10 D0 02+
3AE4 FF F0 80 F7+
3AE4 02 7F F8 00+
3AE4 02 7F F8 00+ .db 0, 0x53, 0x18, 0x53, 0x54, 1, 0x53, 0x92, 0x53, 0xB8
3AE4 F8 00 CB 57+ .db 0, 0x5B, 0x76, 0x5B, 0x98, 0x93, 0x54, 0x73, 0xB6, 0x73, 0xB6
3AE4 CB 6F 00 CB+ .db 0, 0x83, 0x95, 0x83, 0xB5, 0, 0x93, 0x38, 0x93, 0x54
3AE4 CB BB CB F3+ .db 0xAB
3BED 06 8F 90 70+cement_pie_level_tilemap_data:.db 6, 0x8F, 0x90, 0x70, 0x90, 6, 0x8F, 0x98, 0x70, 0x98
3BED 07 08 08 BF+ .db 6, 0x8F, 0x80, 0x70, 0x80, 0x70, 0x80, 0x70, 0x81, 0x68, 0x70, 0x98
3BED 08 08 08 BF+ .db 6, 0x8F, 0x80, 0x70, 0x80, 0, 0x63, 0x18, 0x63, 0x58
                                                                                                          .db 6, 0x8F, 0xA0, 0x70, 0xA0, 0, 0x63, 0x18, 0x63, 0x58
.db 0, 0x63, 0x80, 0x63, 0xA8, 0, 0x63, 0xD0, 0x63, 0xF8
.db 0, 0x53, 0x18, 0x53, 0x58, 0, 0x53, 0xA8, 0x53, 0xD0
.db 0, 0x9B, 0x80, 0x9B, 0xA8, 0, 0x9B, 0xD0, 0x9B, 0xF8
3B5D A8 00 63 D0+
3B5D 63 F8 00 53+
                                                                                                                                                   0x80, 0x9B,
0x58, 0x23,
                                                                                                           .db 1.
                                                                                                                                0x23,
                                                                                                                                                                                           0x80.
                                                                                                                                                                                                                       0xDB,
                                                                                                                                                                                                                                            0x58,
                                                                                                                                                                                                                                                               0xDB, 0x80
                                                                                                           .db 0, .db 0, .db 0,
3B5D 18
3B5D 53
                                                                                                                               0x2B,
0xA3,
                                                                                                                                                   0x80,
0xA8,
                                                                                                                                                                       0x2B,
0xA3,
                                                                                                                                                                                          0xA8,
0xD0,
                                                                                                                                                                                                                       0xD3,
0x2B,
                                                                                                                                                                                                                                           0x80,
0xD0,
                                                                                                                                                                                                                                                               0xD3,
0x2B,
                                                                                                                                                                                                                                                                                  0xA8
0xF8
3B5D 00 9B 80 9B+
                                                                                                                                0xD3,
                                                                                                                                                    0xD0,
                                                                                                                                                                       0xD3,
                                                                                                                                                                                           0xF8,
                                                                                                                                                                                                              0,
                                                                                                                                                                                                                       0x93,
                                                                                                                                                                                                                                            0x38,
                                                                                                                                                                                                                                                               0x93,
                                                                                                                                                                                                                                                                                   0x58
3BE5 63 D0 00 53+
                                                                                                                                                                                                                                                                       ; sub 0 2441+271o
                                                                                                           .db 0, 0x53, 0x18, 0x53, 0x58, 0, 0x53, 0x88, 0x53, 0xD0
.db 0, 0xE3, 0x68, 0xE3, 0x90, 0, 0xE3, 0xB8, 0xE3, 0xD0
.db 0, 0xCB, 0x90, 0xCB, 0xB0, 0, 0xB3, 0x58, 0xE3, 0xD0
.db 0, 0xCB, 0x90, 0xCB, 0xB0, 0, 0xB3, 0x58, 0xB3, 0x78
.db 0, 0x9B, 0x80, 0x9B, 0xA0, 0, 0x93, 0x38, 0x93, 0x58
3BE5 18 53 58 00+
3BE5 53 88 53 D0+
3BE5 00 E3 68 E3+
3BE5 90 00 E3 B8+
                                                                                                           db 0, 0x23, 0x88, 0x23, 0xC0, 0, 0x1B, 0xC0, 0x1B, 0xE8
db 2, 0x97, 0x38, 0x68, 0x38, 2, 0xB7, 0x58, 0x10, 0xE8
db 2, 0xEF, 0x68, 0xE0, 0x68, 2, 0xD7, 0x70, 0xC8, 0x70
db 2, 0xEF, 0x78, 0xB0, 0x78, 2, 0xA7, 0x80, 0x90, 0x80
3BE5 B3 58 B3 78+
3BE5 00 9B 80 9B+
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst
3BE5 A0 00 93 38+

3BE5 93 58 00 23+

3BE5 88 23 C0 00+

3BE5 1B C0 1B E8+

3BE5 02 97 38 68+

3BE5 38 02 B7 58+
                                                                                                                                                        0x88, 0x48, 0x88, 2, 0x27, 0x88, 0x10, 0x88
3BE5 A0 00 93 38+ ...db 2, 0x67, 0x88, 0x48, 0x48, 2, 0x27, 0x88, 0x10, 0x88
3BE5 93 58 00 23+ ...db 2, 0xEF, 0x99, 0xC8, 0x90, 2, 0xA7, 0xA0, 0x98, 0xA0
3BE5 18 C0 1B E8+ ...db 2, 0xEF, 0xB8, 0xE0, 0xB8, 2, 0x27, 0xC0, 0x10, 0xC0
3BE5 18 C0 1B E8+ ...db 2, 0xEF, 0xB8, 0xE0, 0xB8, 2, 0x27, 0xC0, 0x10, 0xC0
3BE5 38 02 B7 58+ ...db 2, 0xEF, 0xB8, 0xE0, 0xB8, 2, 0xE7, 0xC0, 0x50, 0xD0
3BE5 10 58 02 EF+ ...db 2, 0xF, 0xD0, 0xB8, 0xC0, 0xB8, 2, 0xE7, 0xE0, 0xA8, 0xE0
3BE5 10 58 02 EF+ ...db 2, 0xF, 0xB8, 0xE8, 0xE8, 2, 0x27, 0xE0, 0xA8, 0xE0
3BE5 10 58 02 B7 58+ ...db 2, 0xF, 0xB8, 0xB8, 0xE8, 2, 0x27, 0xE0, 0xA8, 0xE0
3BE5 10 58 02 B7 58+ ...db 2, 0xF, 0xF8, 0xB8, 0xB8, 0xE8, 2, 0x27, 0xE8, 0x10, 0xE8
3BE5 68 00 68 02+ ...db 2, 0xFF, 0xF8, 0xB0, 0xF8, 0xA0
3CBB 00 7B 80 7B+rivet_level_tilemap_data:.db 0, 0x7B, 0x7B, 0xA8, 0, 0x7B, 0xD0, 0x7B, 0xF8
3CBB A8 00 7B E00+ ...db 0, 0x33, 0x58, 0x33, 0x80, 0, 0x53, 0x58, 0x53, 0x80
3CBB 7B F8 00 33+ ...db 0, 0xAB, 0x58, 0xAB, 0xAB, 0xB0, 0, 0xCB, 0x58, 0xCB, 0xB0
3CBB 7B S8 58 53 80+ ...db 0, 0xAB, 0x58, 0xAB, 0xAB, 0, 0xCB, 0xB8, 0xB3, 0xB3, 0xB8, 0xB3, 0xB3, 0xB3, 0xB8, 0xB3, 0xB3, 0xB8, 0xB3, 0xB3, 0xB8, 0xB3, 0xB8, 0xB3, 0xB3, 0xB8, 0xB3, 0xB8, 0xB3, 0xB3, 0xB8, 0xB3, 0xB3, 0xB8, 0xB3, 0xB8, 0xB3, 0xB8, 0xB3, 0xB8, 0xB3, 0xB3, 0xB3, 0xB8, 0xB3, 
                                                                                                              .db 2, 0x67,
3C8B 00 AB 58 AB+
3C8B 80 00 CB 58+
3C8B CB 80 00 2B+
3C8B 80 2B A8 00+
                                                                                                              db 0, 0x2B, 0x80,
db 0, 0x23, 0xA8,
db 0, 0xA3, 0xA8,
db 0, 0x1B, 0xD0,
                                                                                                                                                                                                                             0xD3, 0x80, 0xD3, 0xA8
0x5B, 0xA8, 0x5B, 0xD0
0xDB, 0xA8, 0xDB, 0xD0
                                                                                                                                                                            0x2B,
                                                                                                                                                                                               0xA8.
                                                                                                                                                                                                                    0.
                                                                                                                                                       0xA8, 0xA3, 0xD0,
0xA8, 0xA3, 0xD0,
                                                                                                                                                       0xD0, 0x1B, 0xF8,
                                                                                                                                                                                                                    0. 0xE3.
                                                                                                                                                                                                                                                  0 \times D0.
                                                                                                                                                                                                                                                                      0xE3, 0xF8
3C8B D3 80 D3 A8+
3C8B 00 23 A8 23+
3C8B D0 00 5B A8+
3C8B 5B D0 00 A3+
                                                                                                              db 5, 0xB7, 0x30, 0x48, 0x30, 5, 0xCF, db 5, 0xD7, 0x80, 0x28, 0x80, 5, 0xDF, db 5, 0xE7, 0xD0, 0x18, 0xD0, 5, 0xEF,
                                                                                                                                                                                                                                                                      0x30, 0x58
0x20, 0xA8
                                                                                                                                                                                                                                                  0x58,
                                                                                                                                                                                                                                                   0xA8,
                                                                                                                                                                                                                                                                       0x10, 0xF8
                                                                                                                                                                                                                                                  0xF8,
                                                                                                              .db 0xAA
                                                                                                                                                                                                                                                                              ; DATA XREF: 0000:0C50\dagger\
3CF0 10 82 85 8B how_high_strings:.db 0x10, 0x82, 0x85, 0x8B
3CF0
3CF4 10 85 80 8B
3CF8 10 87 85 8B
3CFC 81 80 80 8B
3D00 81 82 85 8B
                                                                                                            .db 0x10, 0x85, 0x80, 0x88
db 0x10, 0x87, 0x85, 0x8B
db 0x81, 0x80, 0x80, 0x8B
db 0x81, 0x82, 0x85, 0x8B
                                                                                                                                                                                                                                                                              ; "100m"
                                                                                                                                                                                                                                                                                   "125m"
3D04 81 85 80 8B
                                                                                                              .db 0x81, 0x85, 0x80, 0x8B
                                                                                                                                                                                                                                                                              ; DATA XREF: 0000:07F7 o
3D08 05
                                                       title_screen:
                                                                                                              dh 5
3D08
3D09
                                                                                                                                                                                                                                                                              ; RLE-encoded "DONKEY KONG" title
                                                                                                             .dw VRAM_start+0x388 .db 1
              88 77
3D0B 01
3D0B 01
3D0C 68 77
3D0E 01
3D0F 6C 77
3D11 03
                                                                                                              .dw VRAM_start+0x368
                                                                                                                          VRAM_start+0x36C
                                                                                                              .dw
                                                                                                              .db 3
                                                                                                              .dw VRAM_start+0x349
.db 5
.dw VRAM_start+0x308
              49 77
3D12
3D12 49 77
3D14 05
3D15 08 77
3D17 01
                                                                                                              .db 1
3D17 01
3D18 E8 76
3D1A 01
3D1B EC 76
                                                                                                              .dw VRAM_start+0x2E8
.db 1
.dw VRAM_start+0x2EC
.db 5
3D1D 05
3D1E C8 76
3D20 05
                                                                                                              .dw VRAM_start+0x2C8
3D21 88 76
                                                                                                              .dw VRAM_start+0x288
3D23 02
                                                                                                              dh 2
3D24 69 76
3D26 02
                                                                                                              .db 2
.dw VRAM_start+0x269
.db 2
               4A 76
                                                                                                              .dw VRAM_start+0x24A
3D27
3D29 05
3D2A 28 76
3D2C 05
                                                                                                             .db 5
.dw VRAM_start+0x228
.db 5
3D2D E8 75
                                                                                                              .dw VRAM_start+0x1E8
3D2F 01
3D3F 01
3D3O CA 75
3D32 03
                                                                                                              .dw VI
.dw VI
.db 3
                                                                                                                          VRAM_start+0x1CA
                                                                                                              .dw VRAM_start+0x1A9
.db 1
.dw VRAM_start+0x188
3D33 A9 75
3D35 01
3D36 88
                        75
3D38 01
                                                                                                              .db
3D39 8C 75
                                                                                                              .dw
                                                                                                                          VRAM_start+0x18C
3D3B 05
3D3C 48 75
                                                                                                              .db
                                                                                                                          5
VRAM_start+0x148
3D3E 01
                                                                                                              .db 1
              28 75
3D3F
                                                                                                               .dw VRAM_start+0x128
3D41
3D42
              01
2A 75
                                                                                                              .dw VRAM_start+0x128
.dw VRAM_start+0x12A
3D44 01
                                                                                                              .db 1
3D44 01
3D45 2C 75
3D47 01
3D48 08 75
                                                                                                              .dw VRAM_start+0x12C
                                                                                                              .dw VRAM_start+0x108
3D4A 01
                                                                                                              .db
3D4B 0A 75
3D4D 01
3D4E 0C 75
                                                                                                              .dw
.db
.dw
                                                                                                                          VRAM_start+0x10A
                                                                                                                          VRAM_start+0x10C
                                                                                                              .db
.dw
.db
3D50 03
3D51 C8
3D53 03
                        74
                                                                                                                          VRAM_start+0xC8
                                                                                                              .db 3
.dw VRAM_start+0xAA
3D54 AA 74
3D54 AA
3D56 03
3D57 88
3D59 05
                                                                                                             db 3
.dw VRAM_start+0x88
.db 5
.dw VRAM_start+0x32F
                        74
3D5A 2F 77
3D5C 05
3D5D 0F 77
                                                                                                              .db 5
.dw VRAM_start+0x30F
3D5F 02
3D60 F0 76
                                                                                                              .db 2
.dw VRAM_start+0x2F0
3D62 02
3D63 CF
3D65 02
                                                                                                             .db 2
.dw VI
                        76
                                                                                                                          VRAM_start+0x2CF
3D66 D2 76
                                                                                                              .dw VRAM_start+0x2D2 .db 5
3D68 05
3D69 8F
                8F
                                                                                                              .dw VRAM_start+0x28F
3D6B 05
                                                                                                              .db 5
               6F 76
3D6C
                                                                                                               .dw VRAM_start+0x26F
3D6E
3D6F
              01
4F
                        76
                                                                                                              .dw VRAM_start+0x24F
3D71 01
                                                                                                              .db 1
3D72 53 76
3D74 05
                                                                                                              .dw VRAM_start+0x253
.db 5
                                                                                                              .db 5
.dw VRAM_start+0x22F
3D75 2F 76
3D77 05
                                                                                                              .db 5
3D78 EF
3D7A 02
                                                                                                              .dw VRAM_start+0x1EF
.db 2
                        75
3D7B D0 75
3D7D 02
                                                                                                              .dw VRAM start+0x1D0
                                                                                                              .db 2
3D7E B1 75
3D80 05
                                                                                                              .dw VRAM_start+0x1B1
.db 5
3D81 8F 75
                                                                                                              .dw VRAM_start+0x18F
3D83 03
3D84 50 75
3D86 05
                                                                                                              .db 3
.dw VRAM_start+0x150
.db 5
3D87 2F 75
                                                                                                              .dw VRAM_start+0x12F
                                                                                                              .dw V
.db 1
.dw V
.db 1
3D89 01
3D8A 0F
3D8C 01
                                                                                                                          VRAM_start+0x10F
3D8D 13 75
                                                                                                              .dw VRAM start+0x113
3D8F 01
3D90 EF
3D92 01
                                                                                                              .db
                                                                                                                          VRAM_start+0xEF
                        74
                                                                                                              .db
3D93 F1 74
                                                                                                              .dw VRAM_start+0xF1
3D95 01
3D96 F3 74
                                                                                                              .db
                                                                                                                          1
VRAM_start+0xF3
3D98 02
                                                                                                              .db 2
3D99 D1 74
                                                                                                              .dw VRAM start+0xD1
```

```
File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
; DATA XREF: 0000:0FE21o
                                                                                                                                                                                                              DATA XREF: init_hammer_sprites+9\(^{\)}\)

DATA XREF: 0000:1000\(^{\)}\)

DATA XREF: 0000:1070\(^{\)}\)

DATA XREF: 0000:113D\(^{\)}\)
3E24 E7 D0 00 5C+ ; DATA XREF: 0000:1065\[\text{0}\) 3E24 8C 5O 00 84+ .db 0, 0x84, 0x73, 0xD0, 0, 0x84, 0x17, 0x50, 0, 0xD4
3E24 73 D0 00 84+ .db 0xE7, 0xD0, 0, 0xD4
3E3C 53 73 0A A0+cement_obj_spr: .db 0x53, 0x73, 0xA, 0xA0, 0x8B, 0x74, 0xA, 0xF0, 0xDB
3E3C 8B 74 0A F0+ ; DATA XREF: 0000:1076\[\text{0}\) 0 3E3C B7 50 A A0 .db 0x75, 0xA, 0xA0
3E3C B7 50 A A0 .db 0x75, 0xA, 0xA0
3E48 5B 73 0A C8+elevator_obj_spr:.db 0x5B, 0x73, 0xA, 0xC8, 0xE3, 0x74, 0xA, 0x60, 0x1B
3E48 5B 74 0A 60+ .db 0x75 0xB, 0x78, 0xB
3E40 E3 /4 UA bU+ ; DATA XREF: 0000:10DE†0
3E48 IB 75 0A 80 .db 0x75, 0xA, 0x80 ; db 0x75, 0xA, 0x80 .db 0x75, 0xA, 0x80 ; db 0xDB, 0x73, 0xA, 0xC8, 0x93, 0x74, 0xA, 0xF0, 0x33
3E54 DB 73 0A C8+rivet_obj_spr: .db 0xDB, 0x73, 0xA, 0xC8, 0x93, 0x74, 0xA, 0xF0, 0x33
3E54 93 74 0A F0+ ; DATA XREF: 0000:1143†0
; CODE XREF: check and handle bonus+1A1 j
3E73
3E73
3E73 06 7B
                                          loc_0_3E73:
                                                                                                       b, #0x7B; '{'
                                                                                   1d
3E75 1F
                                                                                   rra
3E75 1F
3E76 D2 28 1E
3E79 1E 03
3E7B 06 7D
                                                                                   jp
ld
                                                                                                        NC, loc_0_1E28
                                                                                                       e, #3
b, #0x7D; '}'
                                                                                   1d
3E7D 1F
3E7E D2 28 1E
3E81 1E 05
                                                                                   rra
jp
ld
                                                                                                       NC, loc_0_1E28
e, #5
b, #0x7F; ''
3E83 06 7F
                                                                                   1d
3E83 06 7F
3E85 C3 28 1E
3E88
3E88
3E88
3E88
3E88
3E88 3
3E88 3A 27 62
3E88 E5
                                                                                   jp
                                                                                                        loc_0_1E28
                                                                               S U B R O U T I N E
                                                                                                                                                                                                              ; CODE XREF: sub_0_2853+18 p
                                          sub_0_3E88:
                                                                                                       a, (level_type)
                                                                                   1d
                                                                                   push
rst
3E8C EF
3E8C
                                                                                                       0x28
3E8D 00 00
                                                                                    .dw 0
.dw loc_0_3E99
.dw l2_check_hammer_hit
.dw l3_check_hammer_hit
                                                                                                                                                                                                              ; Jump table
3E8F 99 3E
3E91 B0 28
3E93 E0 28
3E95 01 29
                                                                                     .dw 14_check_hammer_hit
3E97 00 00
3E99
3E99
3BP9 3BP9 B1 3BP9 B1 3BP9 B1 3BP9 B1 3BP9 B2 60 60 A3BP0 60 
                                          loc_0_3E99:
                                                                                                                                                                                                              ; DATA XREF: sub 0 3E88+7 o
                                                                                   xor
ld
                                                                                                        (unk_0_6060), a
                                                                                   ld
ld
ld
                                                                                                       b, #0xA
de, #0x20; ''
ix, #unk_0_6700
sub_0_3EC3
                                                                                   call
                                                                                                       b, #5
ix, #unk_0_6400
sub_0_3EC3
a, (unk_0_6060)
                                                                                   ld
ld
                                                                                                                                                                                                             ; fireball character data
                                                                                   call
ld
                                                                                   and
ret
                                                                                                        #1
                                                                                   cp
ret
3EBB FE 03
3EBD 3E 03
3EBF D8
                                                                                                        #3
                                                                                                       a, #3
C
                                                                                   ret
3ECO 3E 07
                                                                                                       a, #7
                                                                                   1d
3EC2 C9
3EC2
                                          ; End of function sub_0_3E88
3EC2
3EC3
                                                     SUBROUTINE
3EC3
3EC3 DD CB 00 46
                                                                                                                                                                                                               ; CODE XREF: sub_0_3E88+1F^p; sub_0_3E88+28^p ...
                                                                                                       0, 0(ix)
Z, loc_0_3EFA
a, c
5(ix)
3EC3
3EC7 CA FA 3E
                                                                                   bit
                                                                                   jp
ld
sub
3ECA 79
3ECB DD 96 05
3ECE D2 D3 3E
3ED1 ED 44
                                                                                   qŗ
                                                                                                       NC, loc 0 3ED3
3ED3
3ED3
                                          loc_0_3ED3:
                                                                                                                                                                                                              ; CODE XREF: sub_0_3EC3+B<sup>†</sup> j
3ED3 3C
                                                                                   inc
3ED4 95
                                                                                    sub
3ED4 95
3ED5 DA DE 3E
3ED8 DD 96 0A
                                                                                                        C, loc_0_3EDE
0xA(ix)
                                                                                   jp
sub
                                                                                                        NC, loc_0_3EFA
3EDB D2 FA 3E
                                                                                   jр
3EDE
3EDE
3EDE 52 7E 03
3EDE FD 7E 03
3EE1 DD 96 03
3EE4 D2 E9 3E
3EE7 ED 44
3EE9
                                          loc 0 3EDE:
                                                                                                                                                                                                              ; CODE XREF: sub_0_3EC3+12 j
                                                                                                        a, 3(iy)
3(ix)
                                                                                   sub
                                                                                   jp
neg
                                                                                                        NC, loc_0_3EE9
3EE9
                                          loc_0_3EE9:
                                                                                                                                                                                                             ; CODE XREF: sub_0_3EC3+21 j
                                                                                                       h
C, loc_0_3EF3
9(ix)
NC, loc_0_3EFA
3EE9 94
3EEA DA F3 3E
                                                                                    sub
                                                                                    jр
3EED DD 96 09
3EF0 D2 FA 3E
                                                                                    sub
```

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
3EF3
                            loc 0 3EF3:
                                                                                                                                             ; CODE XREF: sub 0 3EC3+271i
3EF3 3A 60 60
3EF6 3C
3EF7 32 60 60
                                                        1d
                                                                      a, (unk_0_6060)
                                                                      (unk_0_6060), a
3EFA
3EFA
3EFA DD 19
3EFA
3EFC 10 C5
                            loc_0_3EFA:
                                                                                                                                             ; CODE XREF: sub_0_3EC3+4<sup>†</sup>j
; sub_0_3EC3+18<sup>†</sup>j ...
                                                                    ix, de
sub_0_3EC3
                                                         add
                                                        djnz
3EFE C9
3EFE
3EFE
                             ret; End of function sub_0_3EC3
3EFE
3EFF 00 .db 0;
3FOO 5C 76 aCOPYRIGHT_1981:.dw VRAM_start+0x25C ; DATA XREF: 0000:3687\dots
3FO2 49 4A 01 09+ .db 0x49, 0x4A, 1, 9, 8, 1, 0x3F
3FO9 7D 77 aNINTENDO_OF_AMERICA_INC:.dw VRAM_start+0x37D ; DATA XREF: 0000:3689\dots
3FOB 1E 19 1E 24+aNINTENDO: .db 0x1E, 0x19, 0x1E, 0x24, 0x15, 0x1E, 0x14, 0x1F, 0x10
3FOB 15 1E 14 1F+ ; DATA XREF: sub_0_2441\dots
3FOB 10 1F 16 10+ .db 0x1F, 0x16, 0x10, 0x11, 0x1D, 0x15, 0x22, 0x19, 0x13
                                                        ; DATA XI
db 0x1F, 0x16, 0x10, 0x11, 0x1D, 0x15, 0x22, 0x19, 0x13
db 0x11, 0x10, 0x19, 0x1E, 0x13, 0x2B, 0x3F
3F0B 10 1F 10 10F
3F0B 11 1D 15 22+
3F24
3F24
3F24
                             ; SUBROUTINE
3F24
3F24
3F24
3F24 21 AF 74
3F27 11 E0 FF
3F2A 36 9F
3F2C 19
3F2C 19
3F2C 69
                            display_tm:
                                                                      hl, #VRAM_start+0xAF
de, #0xFFE0
(hl), #0x9F; 'f'
hl, de
(hl), #0x9E; 'x'
                                                         ld
                                                         14
                                                        ld
add
ld
3F2F C9
3F2F
3F2F
3F2F
                             ret; End of function display_tm
3F30 50 52 4F 47+aProgramWeWouldTeachYou_Tel_toky:.ascii 'PROGRAM,WE WOULD TEACH YOU.*****TEL.TOKYO-JAPAN 044(244)'
3F30 52 41 4D 2C+ .ascii '2151 EXTENTION 304 SYSTEM DESIGN IKEGAMI CO. LIM.'
3FA0 ;
3FA0
                            3FA0
3FA0 CD A6 3F
3FA3 C3 5F 0D
                                                                                                                                             ; CODE XREF: 0000:0CD11i
3FA6
                                  SUBROUTINE
3FA6
                                                                                                                                             ; CODE XREF: 0000:3FAO†p; ladders for cement pie level; return if level bit not set
3FA6
                            fix_retractable_ladders:
3FA6 3E 02
3FA8 F7
3FA9 06 02
                                                        ld
rst
                                                                    a, #2
0x30
                                                                      b, #2
hl, #VRAM_start+0x36C
                                                         1d
3FAB 21 6C 77
3FAE
3FAE
                                                         ld
                                                                                                                                             ; CODE XREF: fix_retractable_ladders+11|j
                            loc_0_3FAE:
3FAE 36 10
                                                         1d
                                                                       (hl), #0x10
3FB0 23
3FB1 23
3FB2 36 C0
                                                         inc
                                                         inc
ld
                                                                       (hl), #0xC0; 'L'
3FB4 21 8C 74
3FB7 10 F5
3FB9 C9
3FB9
                                                         1d
                                                                      hl, #VRAM_start+0x8C
loc_0_3FAE
                            djnz loc_0_3FAE
ret
; End of function fix_retractable_ladders
3FB9
3FB9
3FBA 00 00 00 00+
                                                        .db 0, 0, 0, 0, 0, 0
3FC0
3FC0
3FC0
3FC0
                             ; SUBROUTINE SUBROUTINE
3FC0
                            sub_0_3FC0:
                                                                                                                                             ; CODE XREF: 0000:2285 p
3FC0 21 4D 69
3FC3 36 03
3FC5 2C
                                                                      hl, #soft_sprite_ram+0x4D
(hl), #3
                                                         ld
                                                         inc
                                                                     1
3FC6 2C
3FC7 C9
3FC7
                                                         inc
                            ; End of function sub_0_3FC0
3FC7
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
3FC8 00 00 41 7F+
3FC8 7F 41 00 00+
3FC8 00 7F 7F 18+
; Segment type: Regular
; segment 'RAM'
                                                         .org 0x6000
                                                                                                                                             ; DATA XREF: 0000:0268†o
; DATA XREF: display_credits+5†o
; 0000:073F†r ...
                                                         .ds 1
                            no_of_credits: .ds 1
                                                                                                                                             ; DATA XREF: check coin inserted+510
                                                         .ds 1
                                                          .ds 1
                                                                                                                                             ; DATA XREF: 0000:00C6†r
; check_coin_inserted+12†r ...
                            attract_mode_flag:.ds 1
sixteen_bit_countdown_msb:.ds 1
eight_bit_countdown:.ds 1
                                                                                                                                             ; DATA XREF: return_NOT_16bit_timeout\u00f10 o ; DATA XREF: return_NOT_8bit_timeout\u00f10 o
                                                                                                                                             ; 0000:078Efo ...
; DATA XREF: 0000:01EEfw
; 0000:06FEfr ...
                            main_sequencer: .ds 1
                                                         .ds 1
                                                         .ds 1
                            current_player_D:.ds 1
current_player_E:.ds 1
                            two_players: .ds 1 controller_in: .ds 1
                                                                                                                                             ; DATA XREF: 0000:00AC^w; 0000:1502^r ...
                                                         .ds 1
                                                         .ds 1 .ds 1 .ds 1 .ds 1
                                                         .ds 1
                                                          .ds 1
                                                                                                                                             ; DATA XREF: rand↑r
; rand+B↑w ...
; DATA XREF: rand+3↑o
; 0000:00B5↑o ...
                            gen_purpose_timer:.ds 1
                                                         .ds 1
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                                                                                                                                             .ds 1
011E ??
6020 ?? lives_per
6020 ?? coinage:
6021 ?? coinage:
6022 ?? ?? ?? ?? coinage:
6026 ?? coinage:
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6028 ?? coinage:
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6049 ?? coinage:
6049 ?? coinage:
6040 
                                                                                                                                                .ds 1
                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: read_dips_and_high_score_tbl+4\(\frac{1}{2}\) o 0000:0922\(\frac{1}{7}\) ...;

; DATA XREF: check_and_award_bonus+1E\(\frac{1}{2}\) o;

; 7/10/15/20K;

; DATA XREF: check_coin_inserted+27\(\frac{1}{2}\) o

; DATA XREF: 0000:0087\(\frac{1}{7}\) r

; 0000:099F\(\frac{1}{7}\) ...
                                                                    lives_per_game: .ds 1
                                                                      bonus_setting: .ds 1
                                                                                                                                             .ds 1
                                                                                                                                              .ds 1 .ds 1 .ds 1
                                                                                                                                             .ds 1 .ds 1 .ds 1 .ds 1
                                                                                                                                             .ds 1
                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: 0000:1499<sup>†</sup>o
; 0000:14FC<sup>†</sup>o
                                                                      unk_0_6030:
                                                                      unk_0_6031:
                                                                                                                                             .ds 1
                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: 0000:158A<sup>†</sup>o; 0000:15B2<sup>†</sup>w
                                                                       unk_0_6032:
                                                                                                                                             .ds 1
                                                                                                                                              .ds 1
                                                                     unk_0_6034:
unk_0_6035:
unk_0_6036:
                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: 0000:14DC1o
                                                                                                                                              .ds 1
                                                                                                                                              .ds
                                                                                                                                              .ds
                                                                     unk_0_6038:
                                                                                                                                             .ds
.ds
.ds
                                                                     unk_0_603A:
                                                                                                                                             .ds 1 .ds 1 .ds 1
                                                                                                                                                .ds
                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: 0000:093E†o
; 0000:09AB†o ...
; game init data copied here
                                                                      p1_ingame_data: .ds 1
                                                                                                                                             .ds 1
                                                                                                                                              .ds 2
                                                                                                                                                                                                                                                                                                                                                            ; ptr sequence data
                                                                                                                                              .ds 1
                                                                                                                                              .ds 1
                                                                    .ds
p2_ingame_data: .ds
                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: 0000:0909<sup>†</sup>0; 0000:091F<sup>†</sup>0 ...
                                                                                                                                              ds 1
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                                                                                                                                              .ds 1
                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: update_sounds|o; stop_sound+6|o ...; DATA XREF: sub_0_lAC3+E9|o; DATA XREF: sub_0_id=chong_and_pauline+52|w; 0000:0B45|w ...
                                                                     digital snd tmr walk:.ds 1
                                                                      digital_snd_tmr_jump:.ds 1
digital_snd_tmr_thump:.ds 1
                                                                      digital_snd_tmr_coin_spring:.ds 1
digital_snd_tmr_kong_fall:.ds 1
digital_snd_tmr_barrel_jump_priz:.ds 1
                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: check_and_handle_bonus+25\!\!\uparrow\! o ; check_and_handle_bonus+87\!\!\uparrow\! o ...
                                                                      digital_snd_tmr_6:.ds 1
digital_snd_tmr_7:.ds 1
music_something:.ds 1
                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: update_sounds+2E\u00f10 o 000:12A8\u00e9w w ...
; DATA XREF: 0000:067A\u00e9w ...
; DATA XREF: display_1UF+88\u00e9 o ...
; DATA XREF: update_sounds+1A\u00e9 o
                                                                                                                                           .ds 1
                                                                      bg_music:
                                                                      unk_0_608A:
                                                                                                                                           .ds 1
                                                                                                                                            .ds 1 .ds 1 .ds 1
                                                                       unk_0_608B:
                                                                                                                                              .ds 1
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.ds
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.ds .ds 1 .ds 1 .ds 1 .ds 1 .ds 1 .ds .ds 1

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                                                                                                                                                                unk_0_6280:
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                                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: 0000:0F64\rangle o ; 0000:0F72\rangle o ...
                                                                                                                                                                 .ds
                                                                                                                                                                .ds 1 .ds 1 .ds 1 .ds 1
                                                                                                                                                                 .ds
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                                                                               unk_0_6288:
                                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_2207+E<sup>†</sup>o
                                                                                                                                                               .ds 1
.ds 1
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.ds 1
                                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_1A33+53<sup>†</sup>o
; sub_0_1E57+29<sup>†</sup>r
                                                                              unk_0_6290:
                                                                                                                                                                .ds 1 .ds 1 .ds 1
                                                                               unk_0_6291:
unk_0_6292:
                                                                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: sub_0_1A33+48 o
                                                                                                                                                                 .ds
.ds
.ds
                                                                                                                                                                 .ds 1 .ds 1 .ds 1 .ds 1 .ds 1 .ds 1
                                                                                                                                                                 .ds
                                                                                                                                                                 .ds
                                                                               unk_0_62A0:
                                                                                                                                                                 .ds 1
                                                                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: 0000:16BC1w
                                                                                                                                                                                                                                                                                                                                                                                                           ; 0000:16D2\forall w ...
; DATA XREF: sub_0_2602+14\forall o
                                                                               unk_0_62A1:
                                                                                                                                                                .ds 1
                                                                                                                                                                 .ds 1
                                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_2523+2E\uparrowr ; sub_0_262F\uparrowo ...
                                                                               unk_0_62A3:
                                                                                                                                                                 .ds 1
                                                                                                                                                                .ds 1
                                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_2679+7\daggeright of pata XREF: sub_0_2523+39\daggeright r sub_0_2679+14\daggeright o pata XREF: sub_0_27DA\daggeright o
                                                                               unk_0_62A5:
unk_0_62A6:
                                                                                                                                                                 .ds 1
                                                                                                                                                                 .ds 1
                                                                                unk_0_62A7:
                                                                                                                                                                .ds 1
                                                                                                                                                                .ds 1 .ds 1 .ds 1
                                                                               unk_0_62A8:
                                                                               unk_0_62AA:
                                                                                                                                                                 .ds 1
                                                                                                                                                                 .ds 1
                                                                               unk_0_62AC:
                                                                                                                                                                                                                                                                                                                                                                                                         ; DATA XREF: display_1UP+53\formalfont{\psi} w
; display_1UP+98\formalfont{\psi} ...
; DATA XREF: 0000:063A\formalfont{\psi} r
; 0000:0F8E\formalfont{\psi} 0...
; level timer #1
; DATA XREF: sub_0_2C03+9\formalfont{\psi} r
; sub_0_2C8F+4B\formalfont{\psi} 0...
; level timer #2
; level timer #3
; level timer #3
; level timer #4
; DATA XREF: sub_0_2FCB+3\formalfont{\psi} 0
; level timer #5
                                                                                                                                                                 .ds 1
                                                                               byte_0_62AF:
                                                                                                                                                               .ds 1
                                                                                bonus_timer_init_value:.ds 1
                                                                                unk_0_62B1:
                                                                                                                                                                .ds 1
                                                                               unk_0_62B2:
unk_0_62B3:
unk_0_62B4:
                                                                                                                                                                 .ds 1
                                                                                                                                                               .ds 1
                                                                                                                                                                .ds 1 .ds 1 .ds 1
                                                                               unk_0_62B8:
unk_0_62B9:
unk_0_62BA:
                                                                                                                                                                 .ds 1
                                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: sub 0 3A2+91o
                                                                                                                                                                .ds 1
                                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_3A2+2F<sup>†</sup>o; sub_0_3A2+3E<sup>†</sup>w
                                                                                                                                                                 .ds 1
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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
62D3 ??
62D4 ??
62D5 ??
62D6 ??
62D6 ??
62D8 ??
63D8 ??
                                                                                                                                                                  .ds 1
                                                                                                                                                                .ds 1
                                                                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: sub_0_236E<sup>†</sup>o
; sub_0_2441+30<sup>†</sup>o
                                                                                unk_0_6300:
                                                                                                                                                                  ർഭ 1
                                                                                                                                                                 .ds
                                                                               unk_0_6310:
                                                                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: sub_0_2441+B<sup>o</sup>
                                                                                                                                                                .ds
                                                                                 show_bonus_state:.ds
                                                                                                                                                                                                                                                                                                                                                                                                              ; DATA XREF: check_and_handle_bonus+E^w; 0000:1E4A^o
                                                                                  show_bonus_timer:.ds 1
                                                                                unk_0_6342:
                                                                                                                                                                .ds 1
                                                                                                                                                               .ds 1 .ds 1 .ds 1
                                                                                unk_0_6343:
                                                                                                                                                                                                                                                                                                                                                                                                                      DATA XREF: sub_0_1E96 r sub_0_1E96 + 60 r o DATA XREF: 0000:1F09 r o
                                                                                unk_0_6345:
                                                                                unk_0_6346:
                                                                                                                                                               .ds 1
                                                                                                                                                                                                                                                                                                                                                                                                               ; 0000:1F23†o
                                                                                                                                                                 .ds 1
                                                                                unk_0_6348:
                                                                                                                                                                 .ds 1
                                                                                                                                                                 .ds 1
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                                                                           unk_0_6350:
unk_0_6351:
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.ds
                                                                             unk_0_6380:
                                                                                                                                                          .ds 1
                                                                            unk_0_6381:
unk_0_6382:
unk_0_6383:
                                                                                                                                                        .ds
.ds
                                                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: difficulty_timer_tick+7 \uparrow o
                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: 0000:02Dl1o;
; DATA XREF: difficulty_timer_tick1o; DATA XREF: display_lUP+231r; display_lUP+671o ...
                                                                            unk_0_6384: .ds 1 intro_sequencer:.ds 1
                                                                             unk_0_6386:
                                                                                                                                                        .ds 1
                                                                            unk_0_6387:
unk_0_6388:
                                                                                                                                                       .ds 1
                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: 0000:161f<sup>†</sup>r
; 0000:1633<sup>†</sup>r ...
                                                                           unk_0_6389: .ds 1
title_flash_tmr_1:.ds 1
                                                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: 0000:07CB|r
                                                                                                                                                                                                                                                                                                                                                                                            ; 0000:07D5†w ...
                                                                              title_flash_tmr_2:.ds 1
                                                                             bonus timer:
                                                                                                                                                       .ds 1
                                                                             next_girder_to_deform:.ds 1
                                                                                                                                                                                                                                                                                                                                                                                            : DATA XREF: 0000:0B581w
                                                                                                                                                                                                                                                                                                                                                                                                 DATA XREF: 0000:0B58|w
0000:0B94|r ...
DATA XREF: display_1UP+81|w
0000:0B3B|r ...
DATA XREF: sub_0_2C03+4C|w
sub_0_2C8F+8D|r ...
DATA XREF: animate_kon_and_pauline+2B|o
                                                                            byte_0_638E: .ds 1
                                                                            unk_0_638F: .ds 1
                                                                             kong_thrash_tmr:.ds 1
                                                                                                                                                                                                                                                                                                                                                                                                  animate_kong_and_pauline+8Bfr ...
                                                                            kong_thrash_flag:.ds 1
unk_0_6392: .ds 1
barrel_deployment:.ds 1
                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_2ED4+4A1r; sub_0_2ED4+7510; DATA XREF: sub_0_2ED4+7C10; sub_0_2ED4+871w ...
                                                                                                                                                   .ds 1
                                                                            unk_0_6394:
                                                                            unk_0_6395:
                                                                                                                                                       .ds 1
                                                                            unk_0_6396:
                                                                                                                                                           .ds 1
                                                                            mario_on_elevator:.ds 1
                                                                                                                                                       .ds 1
                                                                            unk_0_639A:
unk_0_639B:
                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_2523\daggeright\text{o} o ; sub_0_2523+65\daggeright\text{w}
                                                                                                                                                          .ds 1
                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: 0000:127F†r; 0000:1295†o ...; DATA XREF: 0000:129B†w; 0000:12B2†o
                                                                             mario_death_state:.ds 1
                                                                            death_spin_counter:.ds 1
                                                                                                                                                                                                                                                                                                                                                                                           ; DATA XREF: sub_0_3A2+39\w\; 0000:0768\w\ ...
                                                                             unk_0_63A0:
                                                                                                                                                        .ds 1
                                                                            unk_0_63A1:
unk_0_63A2:
unk_0_63A3:
unk_0_63A4:
unk_0_63A5:
unk_0_63A6:
                                                                                                                                                          .ds 1
                                                                                                                                                        .ds 1
                                                                                                                                                          .ds 1
                                                                                                                                                         .ds 1
                                                                            height_counter: .ds 1
                                                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: 0000:0BFA<sup>†</sup>o
                                                                                                                                                                                                                                                                                                                                                                                            ; 0000:0C431r ..
                                                                            disp_loc_for_height_string:.ds 2
                                                                           .ds 1
segment_addr_1: .ds 2
                                                                                                                                                                                                                                                                                                                                                                                                DATA XREF: draw_level_background+14\[ w\] draw_level_background+5E\[ r\] r\...

DATA XREF: draw_level_background+41\[ w\] draw_level_background+88\[ r\] DATA XREF: draw_level_background+20\[ w\] draw_level_background+20\[ w\] draw_level_background+30\[ w\] draw_level_background+
                                                                             segment_addr_2: .ds 2
                                                                            start_tile_index:.ds 1
                                                                             end_tile_index: .ds 1
                                                                                                                                                                                                                                                                                                                                                                                          ; draw_level_background+831r...
; DATA XREF: draw_level_background+2C1w; draw_level_background+D51r...
; DATA XREF: draw_level_background+331w; draw_level_background+1fv...
; DATA XREF: draw_level_background+11w; draw_level_background+41r...
; DATA XREF: draw_level_background+1A1w; DATA XREF: draw_level_background+1A1w; DATA XREF: draw_level_background+B51w; draw_level_background+B51w;
                                                                                                                       .ds 1
                                                                            dY:
                                                                            segment_type: .ds 1
                                                                             tile_byte_1:
                                                                                                                                                    .ds 1
                                                                            current_tile_in_segment:.ds 1
                                                                              unk_0_63B7:
                                                                            bonus_timer_expired:.ds 1
                                                                                                                                                                                                                                                                                                                                                                                            ; DATA XREF: 0000:0635 r
; 0000:06AC o
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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
64B5 ???
64B8 ???
                                                                                                                                                                                                                                                  unk_0_6500:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; DATA XREF: init_spring_sprites+C\u00f1o ; 0000:28F9\u00e1o ...
                                                                                                                                                                                                                                                            unk_0_6507:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; DATA XREF: init_spring_sprites+3 o
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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM

File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM

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File: D:\markm\pace\pacedev.net\sw\re\platform\dkong\dkong.lst 19/12/2013, 12:58:29 PM
689E ??
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688A ??
68BA1 ??
68BA2 ??
68BA3 ??
68BA4 ??
68BA3 ??
68BA6 ??
68BA6 ??
68BA8 ??
68BA9 ??
                                                                                                                                                                                                                                                                                                                          6BFE
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6BFF
                                                                                                                                                                                                                                                                                                                                .ds
6BFF ??
6BFF ; end of 'RAM'
6BFF ; end of 'RAM'
6BFF ;
7000 ;
7000 ; Segment type: F,
7000 ; segment 'SPRAM'
7000 ?? ?? ?? ??+SPRAM_start:
7000 ?? ?? ?? ??+; end of 'SPRAM'
7000 ?? ?? ?? ??+
7000 ?? ?? ?? ??+
7000 ?? ?? ?? ??+
7000 ?? ?? ?? ??+
7000 ?? ?? ?? ??+
7400 ; Segment type: F,
7400 ; Segment 'VRAM'
7400 ; ?? ?? ??+VRAM_start:
7400 ?? ?? ?? ??+VRAM_start:
7400 ?? ?? ?? ??+
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                                                                                                                                                               ; end of 'RAM'
                                                                                                                                                                 ; Segment type: Regular; segment 'SPRAM'
                                                                                                                                                                                                                                                                                                                          .org 0x7000
.ds 0x400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; DATA XREF: 0000:013D10; 0000:027610; 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 o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; clear_tiles_and_sprites \( \)o \( \dots \)...
                                                                                                                                                               ; Segment type: Regular ; segment 'I8257'
                                                                                                                                                                                                                                                                                                                      .org 0x7800
```

```
.org 0x7C00
                 .org 0x7C80
in1: .ds 1
; end of 'TN1'
                 .org 0x7D00
in2_snd_latch: .ds 1
                                                                                          ; DATA XREF: 0000:00721r
                                                                                          ; update_sounds+31o ...
                                                                                          ; DATA XREF: 0000:01E4†w; 0000:02AF†w ...
                                                                                          ; DATA XREF: 0000:02A8\frac{1}{2}w
; 0000:0779\frac{1}{2}o ...
```